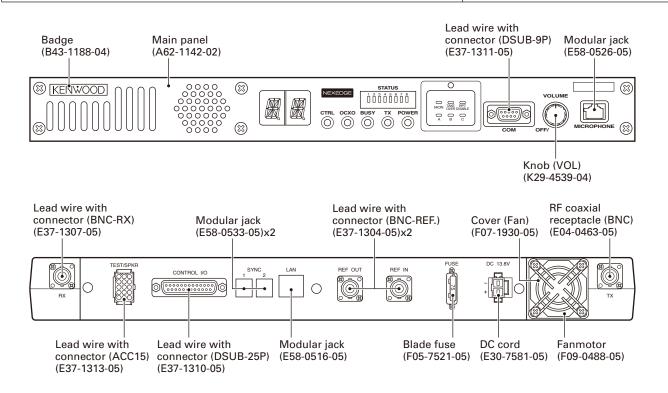
NXR-700 SERVICE MANUAL

KENWOOD

Kenwood Corporation

© 2007-10 PRINTED IN JAPAN B51-8794-00 (N) 193



CONTENTS

SYSTEM SET-UP 3 PACKING ADJUSTMENT ADJUSTMENT PC BOARD SINSTALLATION BLOCK DIAGRAM INTERCONNECTION DIAGRAM SCHEMATIC DIAGRAM SCHEMATIC DIAGRAM OPTIONAL FUNCTION 28 OPTIONAL ACCESSORIES PARTS LIST 39 SPECIFICATIONS BACK CO	GENERAL	2	EXPLODED VIEW	68
OPERATING FEATURES 5 PC BOARD INSTALLATION 6 BLOCK DIAGRAM INTERCONNECTION DIAGRAM COMPONENTS DESCRIPTION 24 SCHEMATIC DIAGRAM TERMINAL FUNCTION 28 OPTIONAL ACCESSORIES	SYSTEM SET-UP	3	PACKING	70
INSTALLATION	REALIGNMENT	3	ADJUSTMENT	71
CIRCUIT DESCRIPTION	OPERATING FEATURES	5	PC BOARD	82
COMPONENTS DESCRIPTION	INSTALLATION	6	BLOCK DIAGRAM	104
TERMINAL FUNCTION 28 OPTIONAL ACCESSORIES	CIRCUIT DESCRIPTION	8	INTERCONNECTION DIAGRAM	108
	COMPONENTS DESCRIPTION	24	SCHEMATIC DIAGRAM	112
PARTS LIST 39 SPECIFICATIONS BACK CO	TERMINAL FUNCTION	28	OPTIONAL ACCESSORIES	136
	PARTS LIST	39	SPECIFICATIONS	BACK COVER

NXR-700

GENERAL

Document Copyrights

Copyright 2007 by Kenwood Corporation. All rights reserved

No part of this manual may be reproduced, translated, distributed, or transmitted in any form or by any means, electronic, mechanical, photocopying, recording, or otherwise, for any purpose without the prior written permission of Kenwood.

Disclaimer

While every precaution has been taken in the preparation of this manual, Kenwood assumes no responsibility for errors or omissions. Neither is any liability assumed for damages resulting from the use of the information contained herein. Kenwood reserves the right to make changes to any products herein at any time for improvement purposes.

Firmware Copyrights

The title to and ownership of copyrights for firmware embedded in Kenwood product memories are reserved for Kenwood Corporation. Any modifying, reverse engineering, copy, reproducing or disclosing on an Internet website of the firmware is strictly prohibited without prior written consent of Kenwood Corporation. Furthermore, any reselling, assigning or transferring of the firmware is also strictly prohibited without embedding the firmware in Kenwood product memories.

NXDN Transceivers:

The AMBE+2(TM) voice coding technology is embedded in the firmware under the license of Digital Voice Systems, Inc.

INTRODUCTION

SCOPE OF THIS MANUAL

This manual is intended for use by experienced technicians familiar with similar types of commercial grade communications equipment. It contains all required service information for the equipment and is current as of the publication date. Changes which may occur after publication are covered by either Service Bulletins or Manual Revisions. These are issued as required.

ORDERING REPLACEMENT PARTS

When ordering replacement parts or equipment information, the full part identification number should be included. This applies to all parts: components, kits, or chassis. If the part number is not known, include the chassis or kit number of which it is a part, and a sufficient description of the required component for proper identification.

PERSONAL SAFETY

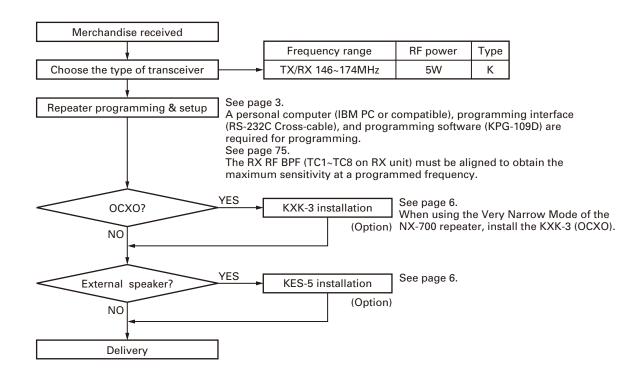
The following precautions are recommended for personal safety:

- DONOT transmit if someone is within two feet (0.6 meter) of the antenna.
- DONOT transmit until all RF connectors are secure and any open connectors are properly terminated.
- SHUT OFF this equipment when near electrical blasting caps or while in an explosive atmosphere.
- All equipment should be properly grounded before powerup for safe operation.
- This equipment should be serviced by only qualified technicians.

SERVICE

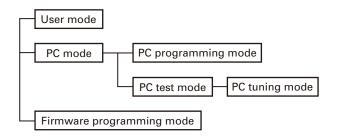
This transceiver is designed for easy servicing. Refer to the schematic diagrams, printed circuit board views, and alignment procedures contained within.

SYSTEM SET-UP



REALIGNMENT

1. Modes



Mode	Function
User mode	Use this mode for normal operation.
PC mode	Use this mode to make various settings by means of the FPU through the RS-232C port.
PC programming mode	Use to read and write frequency data and other features to and from the repeater.
PC test mode	Use to check the repeater using the PC. This feature is included in the FPU.
Firmware program- ming mode	Use when changing the firmware program of the flash memory.

2. How to Enter Each Mode

Mode	Operation
User mode	Power on.
PC mode	Received commands from PC.
Firmware programming mode	Received commands from PC.

3. PC Mode

3-1. Preface

The NXR-700 repeater is programmed by using a personal computer, programming interface and KPG-109D software.

3-2. Connection Procedure

- 1. Connect the NXR-700 to the personal computer with the interface cable.
- 2. When power is applied, the user mode is entered immediately. When the PC sends a command, the repeater enters the PC mode and displays "PC" on the 17-segment LED. When data is being transmitted to the PC from the repeater, the TX LED flashes. The BUSY LED flashes when data from the PC is being received by the repeater.

REALIGNMENT

Note:

- The data stored in the personal computer must match the model type, when it is written into the flash memory.
- Change the NXR-700 to PC mode, then attach the RS-232C Cross-cable.

3-3. KCT-53U Description (USB adapter: Option)

The KCT-53U is cable which connects the RS-232C Crosscable to a USB port on a computer.

When using the KCT-53U, install the supplied CD-ROM (with driver software) in the computer. The KCT-53U driver runs under Windows 2000 or XP.

3-4. Programming Software Description

The KPG-109D is the programming software for NXR-700 supplied on a CD-ROM. This software runs under Windows 2000, XP or Vista on an IBM-PC or compatible machine.

The data can be input to or read from NXR-700 and edited on the screen. The programmed or edited data can be printed out. It is also possible to tune the transceiver.

3-5. Programming With IBM PC

Data can be programmed into the flash memory in RS-232C format via the COM connector.

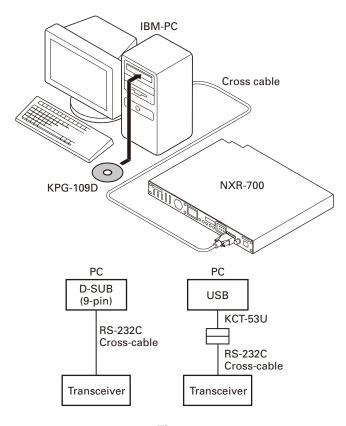


Fig. 1

4. Firmware Programming Mode

4-1. Preface

The NXR-700 uses flash memory to allow it to be easily upgraded when new features are released in the future.

4-2. Connection Procedure

Connect the NXR-700 to the personal computer (IBM PC or compatible) with the RS-232C Cross-cable. (Connection is the same as in the PC mode.)

Notes:

You can only program firmware from the DB-9 COM connector on the front panel. Using the 25-pin logic interface on the rear panel will not work.

4-3. Programming

- 1. Start up the programming software (Fpro. exe).
- 2. Set the communications speed (normally, 115200 bps) and communications port in the configuration item.
- 3. Set the firmware to be updated by file name item.
- 4. Turn the NXR-700 power on.
- Check the connection between the NXR-700 and the personal computer, and make sure that the NXR-700 is in the program mode.
- 6. Press write button in the window. A window opens on the display to indicate progress of writing.
- 7. If writing ends successfully, the NXR-700 restarts.
- 8. If you want to continue programming other NXR-700s, repeat steps 3 to 6.

Notes:

It automatically enters the firmware program mode by the writing request from the programming software (KPG-109D).

4-4. Function

Baud rate is decided automatically with setting of programming software.

Note:

Normally, write in the high-speed mode (115200 bps).

OPERATING FEATURES

1. Two 17-segment LED Displays

 Channel display (1~30): While operating normally in user mode.





When the displayed channel is contained in scan sequence, the right side decimal point is displayed.



 When the displayed channel is the priority channel, the left side decimal point is displayed.



• "PC" is displayed while in PC mode.



• "PG" is displayed while in firmware programming mode.



• "E1" is displayed when FPU data is not written.



• "E2" is displayed when the channel data is not written.



"E3" is displayed when PLL is unlocked.
 Receiver PLL unlocked = BUSY LED blinks.
 Transmitter PLL unlocked = TX LED blinks.



• "E4" is displayed when PTT is attempted on a channel number that has no frequency data programmed.

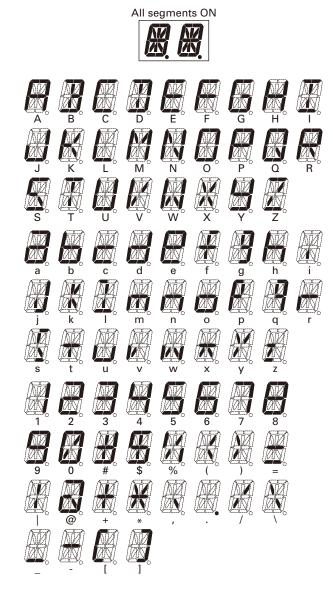


• "E5" is displayed when IP address configuration is error.



• "SC" is displayed while in scan mode.





INSTALLATION

1. OCXO (KXK-3)

- 1. Before installing the KXK-3, be sure to turn the power off.
- 2. Remove the top cover of the TX unit.
- 3. Mount the KXK-3 using the 5 screws.
- Carefully connect and lock the flat cable to CN1 and CN803, with the conductor side facing in.
- 5. Connect the coaxial cable to CN2 and CN407.
- 6. Connect the 2-pin cable to CN3 and CN807.

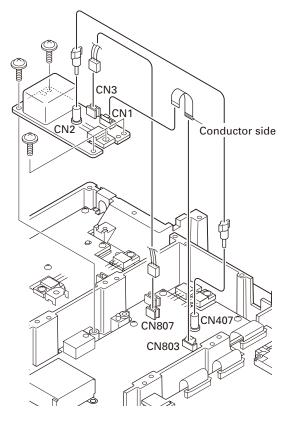


Fig. 1

2. External Speaker (KES-5)

The NXR-700 has a internal built-in speaker, and the external speaker output from the TEST/SPKR connector (15-pin) on the rear of the radio is $3W/4\Omega.$ Use external speaker KES-5.

2-1. Connection for the KES-5 With the NXR-700 ■ When taking the AF output from the TEST/SPKR connector (15-pin) on the rear of the radio

The following tools are required for changing the connector.

Extracting tool

The following extracting tool is recommended: Molex Inc. Order No.: 11-03-0002 (W05-0878-00)

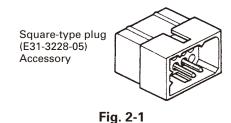
- 1. Remove the connector with jumper from the external speaker connector on the rear panel of the radio. (Fig. 2-1) **Note:** Save the jumper, which is required when the radio is used without the external speaker.
- Remove the terminals with the jumper from the connector housing holes number 9 and 12 using the extracting tool.

Removing the jumper lead (Fig. 2-2)

- 1) Insert the extracting tool (11-03-0002) into the connector while pushing the jumper lead in the direction of (a).
- 2) Push the extracting tool into collapse the barbs of the crimp terminal.
- 3) Pull out the lead while continuing to push the extracting tool in the direction (b).
- 3. Reinsert the terminal with the black and white stripe lead into hole number 12, and the terminal with the black lead into hole number 6. (Fig. 2-3)
- Attach the connector to the external speaker connector on the radio.

Notes:

- Relationship between TEST/SPKR connector (15-pin) connection and speaker output.
- When pins 9 and 12 are shorted: Built-in internal speaker is used
- When pins 9 and 12 are open and output is from pins 6 and 12: KES-5 is used.



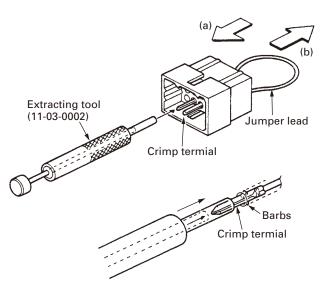


Fig. 2-2

NXR-700

INSTALLATION

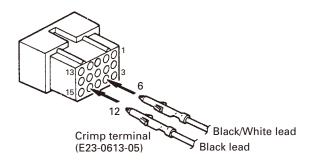


Fig. 2-3

3. How to Attach the Supplied Accessories

- 1. Attach the front glass to the front panel with the supplied screw. (1)
- 2. To attach the handles on the both sides of the chassis, refer to illustration. (2)

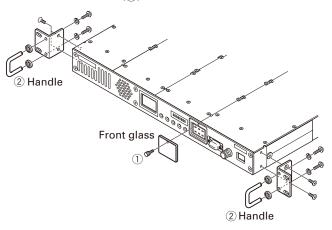


Fig. 3

NXR-700

CIRCUIT DESCRIPTION

1. Outline

The NXR-700 is a VHF repeater operating in the 146~174MHz frequency range.

2. Transmitter unit

The transmitter unit (X56-311 A/3) consists of the following circuit.

- (1) Internal/external reference circuit
- (2) Transmitter reference 19.2MHz PLL circuit
- (3) Transmitter Modulation 19.2MHz PLL circuit
- (4) Transmitter DDS circuit
- (5) Transmitter main PLL circuit
- (6) Driver circuit
- (7) Modulation level adjustment circuit
- (8) AVR circuit
- (9) Other circuits

2-1. Internal/external reference circuit

The internal/external reference circuit automatically

switches signals used as reference signals among the 5.99MHz internal DDS, the 10MHz external reference signal and the 10MHz OCXO unit.

If no OCXO unit is installed, and there is no external reference signal, the 5.99MHz internal DDS (IC601) is selected as the reference signal.

If the OCXO unit is installed and there is no external reference signal, the 10MHz OCXO unit is selected as the reference signal.

If an external reference signal (CN408/ 10MHz/ 0dBm or higher/ Zin=50 Ω) is input, the external reference signal is selected as the reference signal irrespective of an existing OCXO unit.

The internal/external reference circuit consists of Q419, Q418, D401, D403, D404, Q430, Q422, D601 and IC407.

The DDS circuit consists of X601, IC602, IC601, Q606, CF601, Q603 and D602.

If either the OCXO 10MHz or external reference 10MHz is selected as the reference signal, the reference output terminal outputs the reference signal (CN403/ 10MHz/ \pm 9dBm/Zout=50 \pm 00). This circuit consists of Q431, Q420 and Q425.

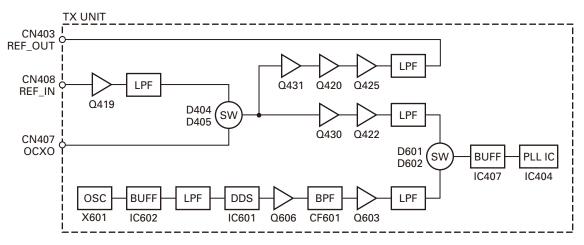


Fig. 1 Internal/external reference circuit

2-2. Transmitter reference 19.2MHz PLL circuit

The transmitter reference 19.2MHz PLL circuit produces a reference frequency signal for the transmitter modulation 19.2MHz PLL circuit, the Receiver unit (X55-309) Receiver DDS circuit and the Control Unit (X53-414) DSP IC.

This circuit consists of Q401, Q402, Q412, Q415, Q416, Q417, X401, IC404, and IC407.

The 5.99MHz or 10MHz signal produced by the internal/external reference circuit is amplified by IC407 and supplied to the PLL IC (IC404) reference signal pin.

The VCXO (X401) signal enters buffer amp Q417 and is amplified by Q415. The higher harmonic wave is attenuated by LPF and returns to IC404. Its phase is compared with that of the reference frequency 10kHz.

The phase difference signal produced by the comparing phase is converted to a DC voltage by a lag-lead type loop filter. This DC voltage is input to the X401 control voltage terminal for controlling the VCXO oscillating frequency.

The DC voltage passes through the IC401 operational amplifier, and is output as a voltage signal (CVT-REF) for monitoring the reference 19.2MHz PLL circuit lock voltage.

The stabilized 19.2MHz reference oscillating signal enters the Q417 buffer amplifier and is amplified by Q412 and Q416. The higher harmonic wave is attenuated by LPF, fed to IC302 and used as the reference frequency signal for the transmitter modulation 19.2MHz PLL circuit.

The 19.2MHz reference oscillating signal is also used as the reference signal for the receiver unit (X55-309) and control unit (X53-414).

It enters the Q417 buffer amplifier for the receiver unit (X55-309) and is amplified by Q401. The higher harmonic wave is attenuated by LPF and is output from CN406.

It enters the Q417 buffer amplifier for the control unit (X53-414) and is amplified by Q402. The higher harmonic wave is attenuated by LPF and is output from CN405.

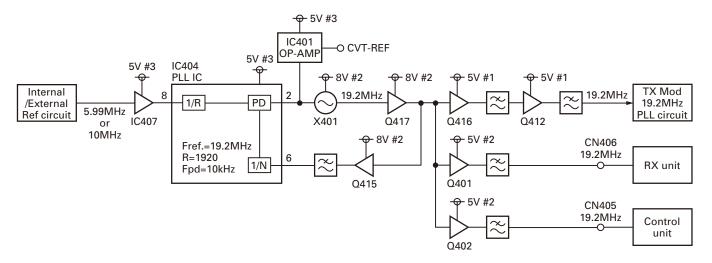


Fig. 2 Transmitter reference 19.2MHz PLL circuit

2-3. Transmitter modulation 19.2MHz PLL circuit

The transmitter modulation 19.2MHz PLL circuit produces the reference frequency signal for the Transmitter DDS circuit and modulates the low-frequency components.

The circuit consists of IC302, IC303, IC305, X301, Q304, Q305, and Q307.

The signal generated by the VCXO (X301) is fed to the buffer amplifier Q307.

The VCXO (X301) signal enters buffer amplifier Q307 and is amplified by Q305. The higher harmonic wave is attenuated by the LPF and returns to IC303. Its phase is compared with that of the reference frequency 5kHz.

The phase difference signal produced by the comparing

phase is converted to a DC voltage by a lag-lead type loop filter. This DC voltage is input to the IC305 invert amplifier (B/2) and is synthesized with the modulating signal. This DC voltage is input to the X301 control voltage terminal for controlling the VCXO oscillating frequency 19.2MHz.

The DC voltage passes through the IC306 operational amplifier, and is output as a voltage signal (CVT-MOD) for monitoring the modulating 19.2MHz PLL circuit lock voltage.

The 19.2MHz oscillating signal is fed to the Q307 buffer amplifier and is amplified by Q304. The higher harmonic wave is attenuated by the LPF, fed to IC307, and is used as the reference frequency signal of the transmitter DDS circuit.

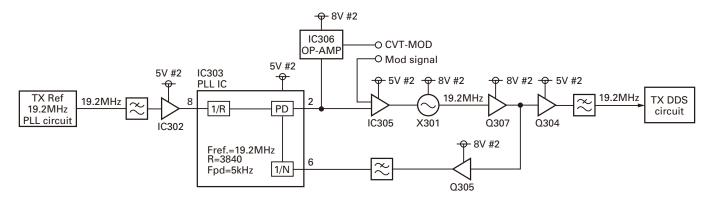


Fig. 3 Transmitter modulation 19.2MHz PLL circuit

NXR-700

CIRCUIT DESCRIPTION

2-4. Transmitter DDS circuit

The transmitter DDS circuit produces the transmitter main PLL reference frequency signal 4.5MHz.

This circuit consists of IC307, IC202, CF201, Q210, Q211, Q212 and Q213.

The 19.2MHz signal from the transmitter modulation 19.2MHz PLL circuit is amplified by IC307 and supplied to the IC202 reference signal pin.

IC202 produces the transmitter main PLL 4.5MHz refer-

ence frequency signal based on 19.2MHz on signal.

The spurious output by IC202 is attenuated by CF201 and LPF, 4.5MHz reference frequency signal is amplified by Q211, Q212, and Q213, and fed to the transmitter main PLL.

The comparison frequency of the transmitter main PLL is 100kHz and the PLL frequency step is 100kHz.

However, minute frequency step such as 2.5kHz and 3.125kHz because the DDS output frequency is variable.

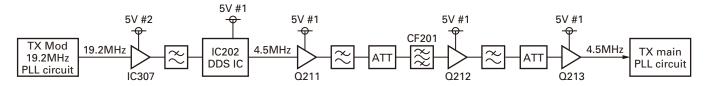


Fig. 4 Transmitter DDS circuit

2-5. Transmitter main PLL circuit

The transmitter main PLL circuit consists of the VCO (Q102 and Q103), PLL IC (IC101) and divide-by-2 circuit (IC811) and produces the transmitter frequency signal.

The VCO Q102 produces transmitter frequencies from 146.000MHz to 159.995MHz. (The transmitter frequency of the VCO is from 292.000MHz to 319.990MHz.)

The VCO Q103 produces transmitter frequencies from 160.000MHz to 174.000MHz. (The transmitter frequency of the VCO is from 320,000MHz to 348,000MHz.)

The signal produced by the VCO (Q102 or Q103) is fed to the buffer amplifier and is amplified by Q106. The higher harmonic wave is attenuated by LPF and returns to the PLL IC (IC101).

IC101 divides the VCO oscillating frequency signal and

transmitter PLL reference signal (4.5MHz), and compares the phase with the 100kHz comparison frequency.

The phase difference signal produced by the comparing phase is converted to a DC voltage by a lag-lead type loop filter.

The DC signal is applied to varicaps D101, D102, D107, and D108 to lock the VCO oscillator frequency with the desired oscillator frequency.

At the same time, the DC signal passes through the IC102 operational amplifier for monitoring the transmitter main PLL lock voltage.

The output from the VCO passes through the buffer amplifier Q104. The divide-by-2 circuit (IC811) divides the frequency and produces the transmitter frequency. The output level of IC811 is about +6dBm (4mW).

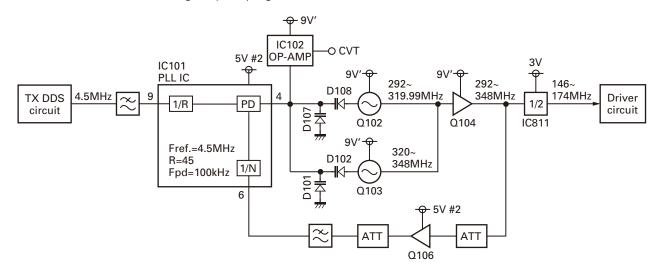


Fig. 5 Transmitter main PLL circuit

2-6. Driver circuit

The driver circuit amplifies the transmitter frequency signal to the level required for input to the Final Unit (X45-381 A/5).

This circuit consists of RF amplifiers Q202 and Q203, switches Q204, Q205 and Q206, and operating amplifier IC201.

DC switches Q204, Q205, and Q206 turns the power supply voltage of RF amplifiers Q202, and Q203 on and off.

The output of the divide-by-2 IC (IC811) is attenuated by attenuators R209, R210 and R211, by approximately 10dB. So, the transmitter signal input level to Q202 is approximately -4dBm (0.4mW).

Q202 amplifies it by approximately 15dB. So, the output level is approximately +11dBm (12.6mW).

The output from Q202 is attenuated by attenuators R217, R218 and R219, by approximately 3dB, and amplified by Q203 approximately by 12dB. So, the output from Q203 is approximately +20dBm (100mW). This output level is output from the driver output connector CN802 and connected to the Final Unit (X45-381 A/5).

Q203 has an AGC (Auto Gain Control) circuit. D201 rectifies a part of the Q203 output and converts it into DC voltage. It is compared with the control voltage (D_PC) by the operation amplifier IC201. The Q203 Gate terminal voltage is controlled for the stabilizing Q203 output (+20dBm).

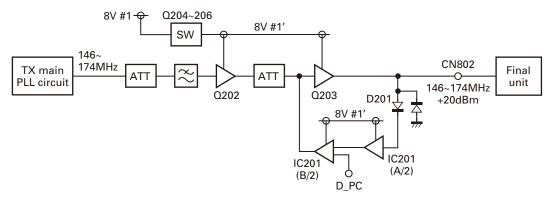


Fig. 6 Driver circuit

2-7. Modulation level adjustment circuit

The level adjustment circuit adjusts the modulation signal level to provide the required level of modulation. This circuit consists of IC301, IC304, IC305, and IC308.

The audio signal comes from the Control Unit (X53-413) through pin 4. The modulating signal is input to IC304 from this.

IC304 is an electronic volume control IC.

The modulation waveform balance adjustment, maximum AF Dev. change, and adjustment are performed according to data from the MPU using the FPU.

The modulation signal is produced by the modulating low-pitched tone to the transmitter modulation 19.2MHz PLL circuit and adds the high-pitched modulation to the transmitter main PLL.

IC305 is an inverting amplifier (B/2) for inverting the amplification (A/2) of the modulating signal and synthesizing the VCXO (X301) control voltage and modulating signal.

IC301 is a reference voltage generator (A/2) in modulating level adjusting circuit and non-inverting amplification of modulating signal with a cutoff signal of approximately 9kHz (B/2).

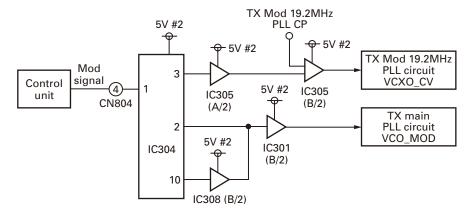


Fig. 7 Modulation level adjustment circuit

2-8. AVR circuit

IC104, IC603, IC704, IC705, IC706, IC807, IC808 and IC809 are AVR ICs.

Each circuit contains its own power regulator IC to maintain isolation between circuits.

2-9. Other circuits

In addition, IC702 is an EEPROM. The transmitter adjustment data adjusted for each unit is written into the EEPROM. If the unit is installed in another set, it is not necessary to adjust it again from the beginning, but only finetuning is necessary for each unit.

The temperature sensor (IC804) monitors the temperature of the transmitter unit (X56-311 A/3).

The D/A converters (IC701 and IC802) converts the AGC setting (D_PC) of the driver circuit and control voltage value (PWR_CONT, PWR_PRT) of the Final Unit (X45-381 A/5).

The A/D converter (IC803) converts the transmitter unit (X56-311 A/3) temperature, VCO & VCXO control voltage (CVT, CVT-REF and CVT-MOD), Final Unit (X45-381 A/5) PA current(PA_CURR), fan current (FAN_CURR), detection voltage (FWD_PWR, RFL_PWR), etc.

The shift register (IC703) controls each part of the transmitter unit (X56-311 A/3) based on serial data of the Control Unit (X53-413).

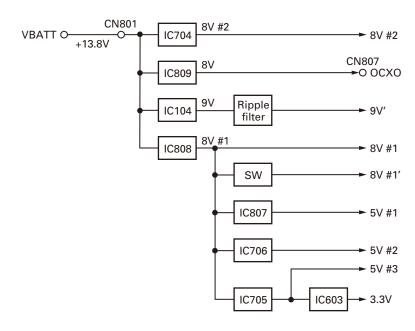


Fig. 8 AVR circuit

3. Final unit

The RF final amplifier unit (X45-381 A/5) amplifies the transmitter power to a specified level.

This unit consists of the following circuits:

- (1) Transmitter power module
- (2) High pass filter
- (3) Forward/Reflect power detector circuit
- (4) Antenna switch
- (5) Harmonic filter circuit
- (6) APC circuit
- (7) High temperature detector circuit
- (8) FAN action control circuit
- (9) Current detector circuit
- (10) AVR Circuit
- (11) Other Circuits

3-1. Transmitter power module

The power module IC10 uses power module RA13H1317 M131 to improve its efficiency. The driver output of the transmitter unit passes through an attenuator and enters the power module IC10 pin 1. Power module IC10 amplifies the RF power according to the voltage at the amplification control pin 2 (VGG) and outputs it through pin 4 (Pout).



Fig. 9 Transmitter power module

3-2. High pass fileter

The T type single stage high pass filter prevents the Power Amplifier Module from being broken by static electricity.

3-3. Forward/Reflect power detector circuit

The forward / Reflect power detector circuit consists of a CM coupling type detection circuit formed by a Micro strip line and the differential amplifier IC4.

A part of the transmitter power is detected by diodes D9 and D10 and is converted into DC voltage.

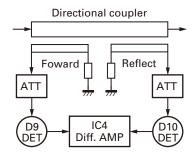


Fig. 10 Forward/Reflect power detector circuit

3-4. Antenna switch

If a common antenna is used for the transmitter signal and receiver signal, switch transmitter and receiver signals by connecting CN19 to the RX Unit.

If different antennas are used for the transmitter and receiver, it functions as an On/Off switch for the transmitter circuit.

3-5. Harmonic filter circuit

The harmonic filter circuit uses a three-stage "pi" type Chebyshev type LPF.

This circuit removes harmonics from the transmitter output and sends the filtered signal to the antenna connecter (CN22).

3-6. APC circuit

The APC circuit stabilizes the transmitter power so that the output power specified by the Control Voltage from the MPU is obtained. It consists of a Forward/Reflect power detector circuit and Differential amplifiers (IC2 and IC5).

It compares the voltage detected by the Forward/Reflect power detector circuit (voltage detected by the Forward Power) and the Control Voltage (PWR_CONT) from the MPU (IC802: X56-311 A/3). It stabilizes the output power by changing pin 2 (Vgg).

The voltage detected (that detected Reflect Power) by the Forward/Reflect power detector circuit is compared to the Control Voltage (PWR_PRT) from the MPU (IC802: X56-311 A/3). When a load V.S.W.R. is connected to the Antenna Connecter and is more than 1.5, it functions so that the output power gets smaller as the detection voltage (that detected Reflect Power) gets larger.

3-7. High temperature detector circuit

The high temperature detector circuit consists of a thermal switch IC (IC7) and a switching FET (Ω 2).

This circuit lowers the transmitter power when the final unit temperature is too high (83°C or higher).

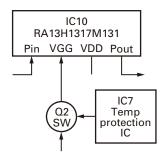


Fig. 12 High temperature detector circuit

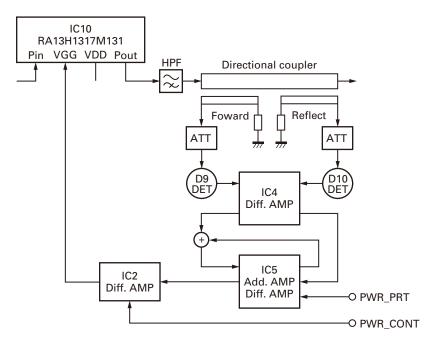


Fig. 11 APC circuit

3-8. FAN action control circuit

The FAN action control circuit consists of a FAN, a current detection resistance (R11), a Differential amplifier (IC15), a Switching FET (Q3), and a Switching FET (Q14). It detects the normal and abnormal state by monitoring the current flowing FAN motor, and stops operation when failure occurs.

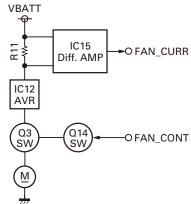


Fig. 13 FAN action control circuit

3-9. Current detector circuit

The current detector circuit monitors the current of the Power Amplifier Module. It consists of a current detection resistance (R4) and a current detection IC (IC1). It detects the normal and abnormal state of the Power Amplifier Module by monitoring the current of the Power Amplifier Module. If a failure occurs, it stops operation.

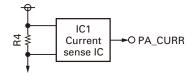


Fig. 14 Current detector circuit

3-10. AVR circuit

IC3, IC11 and IC12 are AVR ICs. They maintain isolation of each power supply.

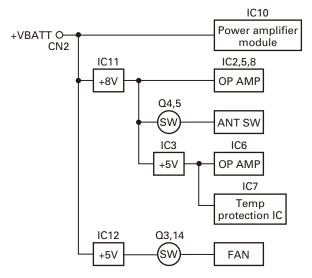


Fig. 15 AVR circuit

3-11. Other circuits

Circuit IC9 saves various adjustment values of the Final Unit in the EEPROM.

4. Receiver Unit

The receiver unit (X55-309) consists of the following circuits:

- (1) Front-end circuit
- (2) 1st-Mixer circuit
- (3) 1st-IF circuits
- (4) Demodulator circuits
- (5) Squelch circuit
- (6) Receiver DDS circuit
- (7) Receiver PLL circuits
- (8) AVR circuit
- (9) Other circuits

There are four modulating modes that can receiver demodulate, including Analog_Wide, Analog_Narrow, Digital_Narrow, and Digital Very-Narrow.

4-1. Front-end circuit

The front-end circuit consists of L132, L133, L134, and L135 coils, tetra polar BPF synchronizing TC1, TC2, TC3 and TC4 variable trimming capacitors, Q1 Low Noise Amplifier (LNA), L136, L137, L138, L139 coils, and tetra polar BPF synchronizing TC5, TC6, TC7, and TC8 variable trimming capacitors.

Adjusting eight variable trimming capacitors forms the BPF having a pass band width of 3MHz with a center frequency from 146 to 174MHz.

+9V is applied to the Q1 collector power supply. -3V produced by IC701, IC702 and IC703 mounted on a negative power unit (X45-381 D/5) is applied to the emitter power supply. The collector current is monitored by the IC4 current detection circuit. Detected DC voltage is input to pin 15 of IC30 (ADC).

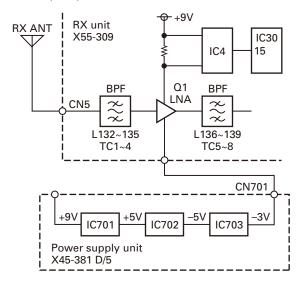


Fig. 16 Front-end circuit

4-2. 1st-Mixer circuit

The unwanted out-of-band RF components produced by Q1 are attenuated by the BPF. Only the desired signal is transmitted to the A1 Double Balanced Mixer (DBM). Here, the desired signal is mixed with the first hetero signal. 49.95MHz is produced as the 1st Intermediate Frequency (IF1).

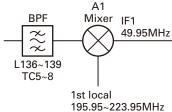


Fig. 17 1st-Mixer circuit

4-3. 1st-IF circuits

The IF1 signal produced by the 1st-Mixer circuit is transmitted through either one of two 1st-IF circuits with different bandwidth. The signal passes through the WIDE band consisting of D9, XF1, Q19, XF3, Q28 and D13 only in Analog_Wide mode. Meanwhile, the signal passes through the NARROW band consisting of D10, XF2, Q20, XF4, Q29, and D14 only in Analog_Narrow, NXDNI_Narrow or NXDN_Very-Narrow mode.

XF1 and XF2 is 2 pole and XF3 and XF4 are 4 pole Monolithic Crystal Filters (MCF). They are BPF for removing spurious noise occurring close to the desired signal. The DC switch consists of Q31, Q32, Q26 and Q25, switches the WIDE and NARROW bands of the 1st-IF circuits.

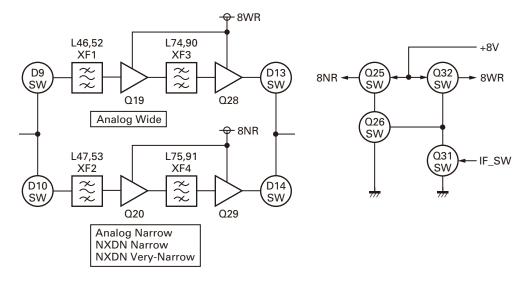


Fig. 18 1st-IF circuits

4-4. Demodulator circuits

The desired signal that passed through the 1st-IF circuits passes through the distributor consisting of LC parts and is fed to the IF system IC_IC12, IC13. The signal in Analog_Wide or Analog_Narrow mode is mixed with the second local oscillator hetero signal by the mixer in IC12. 450kHz is produced as the 2nd Intermediate Frequency (IF2).

It passes through D15, CF2, D16, D19, CF5 and D20 path if the modulation mode is Analog_Wide. It passes through D15, CF3, D16 and D19, CF7 and D20 path if the modulation mode is Analog_Narrow. The base band signal FM-detected by the quadrature detection circuit consisting of L128, Q57, and Q58 and is amplified to a signal level of approximately

100mVrms by IC20 and is then transmitted to the control unit (X53-413) from CN42 (pin12).

The signal in NXDN_Narrow or NXDN_Very-Narrow mode is mixed with the second local oscillator hetero signal by the mixer in IC13. 450kHz is produced as the 2nd Intermediate Frequency (IF2). Here, irrespective of modulation modes, it passes through the CF4 and CF6 path. It is transmitted as the base band signal via IC14 to the CN43 control unit, X53-414.

CF2, CF3, CF4, CF5, CF6 and CF7 are hexode Ceramic Filters. They are BPF for removing spurious noise occurring close to the desired signal.

NXR-700

CIRCUIT DESCRIPTION

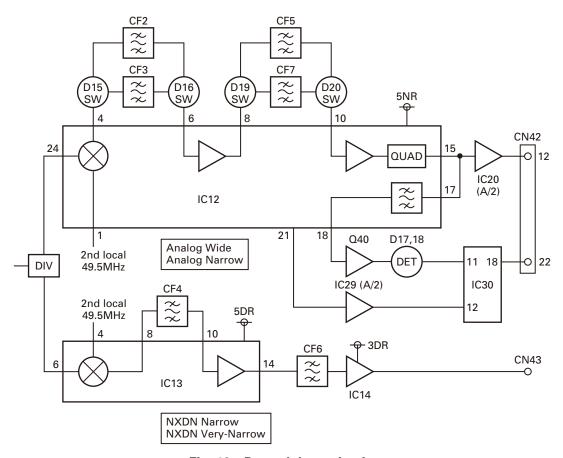


Fig. 19 Demodulator circuits

4-5. Squelch circuit

The desired noise of the noise component output from IF system IC_IC12 (pin18) is extracted by the BPF. After passing through Q40, it is DC-detected as the squelch voltage by D17, D18 and input to ADC_IC30 (pin11).

The MPU mounted in the control unit (X53-413) compares it with a predetermined reference voltage and turns the Audio signal on and off. The strength of the receiver signal input from CN5 is output as the RSSI voltage from IF system IC_IC12 (pin21), and is input to_IC30 (ADC) pin12 via IC29 A/2.

4-6. Receiver DDS circuit

The 19.2MHz Internal reference clock produced by transmitter unit (X56-311 A/3) is distributed to CN45 of the receiver unit (X55-309). It passes through Q39, Q30, and IC8, and is input to IC7 (DDS-IC) pin6 as the Master clock. Approximately 6MHz signal is generated as the 1st-PLL Reference clock.

IC7 has a resolution of 32 bits for realizing the frequency step minters than the 1st-PLL comparison frequency. The generated Reference clock is output via Q12, CF1, and Q5. CF1 is a Ceramic Filter. It is the BPF for removing unnecessary spurious noise included in the generated Reference clock.

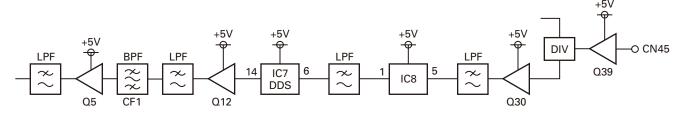


Fig. 20 Receiver DDS circuit

4-7. Receiver PLL circuits

The receiver unit (X55-309) has the 1st-PLL circuit for controlling the VCO that generates the hetero signal to the first local oscillator, and the 2nd-PLL circuit for controlling the VCO that generates the hetero signal to the second local oscillator.

The 1st-PLL circuit consists of the VCO (Q7 and Q8), the Buffer amplifier (Q17), the RF amplifiers (Q16 and Q3), the PLL-IC (IC5), the Active loop filters (Q2 and Q4) and the Band switches (Q14, Q10, Q11 and Q59). The signal in the195.95 through under 209.95MHz band generated by VCO Q7 and the 209.95 through 223.95MHz band generated by VCO Q8 is input to IC5 (pin5) via Q17 and Q16 as the Fin signal. The 6MHz reference signal generated by the DDS-IC (IC7) is input to IC5 (pin8) via Q3. Two signals, Fin and REFin, are phase-compared as the 100kHz comparison frequency by each frequency divider. The VCO output with the frequency synchronized is input to the 1st-Mixer as the first local oscillator Upper hetero signal approximately

+17dBm via Q17, Q23, and Q18. The control voltage is input to IC30 (ADC) pin16 via IC6.

Meanwhile, the 2nd-PLL circuit consists of the VCO (Q24), the Buffer amplifier (Q33), the RF amplifier (Q38, Q22), and the PLL-IC (IC11). The 99.0MHz signal generated by Q24 is input to IC11 (pin5) as the Fin signal via Q38. The 19.2MHz Internal reference clock distributed by the transmitter unit (X56-311) is input as the REFin signal to IC11 (pin8) via Q22. Two signals, Fin and REFin, are phase-compared by each frequency divider as the comparison frequency of 200kHz. The VCO output with the frequency synchronized is input to IC9 (prescaler IC) pin2 via Q33 and Q21. The 49.5MHz signal is frequency-divided into halves by IC9 and is excited by Q53 and distributed. One is input to IC12 (pin1) via Buffer amplifier_Q35. The other is input to IC13 (pin4) via Buffer amplifier_Q36. Both are input as approximately -16dBm for the second local oscillator Lower hetero signal. The control voltage at this point is input to IC30 (ADC) pin10 via IC33.

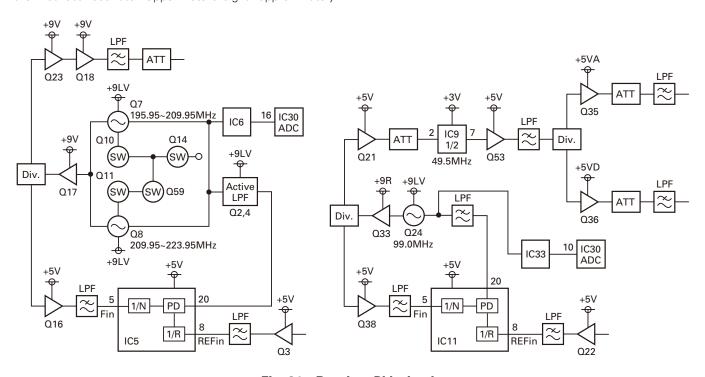


Fig. 21 Receiver PLL circuits

4-8. AVR circuit

The power supply voltage supplied from the power unit (X45-381 C/5) is distributed from the receiver unit (X55-309) CN44 to IC24 (8V), IC25 (8V), IC26 (9V), and IC27 (9V) via the Q52 DC switch. The output of IC24 is supplied to the 1st-IF circuits, the 1st-Local amplifiers and the IF system IC_IC12 via IC15 (5V). Further, the output of IC25 is distributed to IC16 (5V), IC17 (5V), IC18 (5V) and IC19 (5V). The output

of IC16 is supplied to IF system IC_IC13. The output of IC17 is supplied to the 2nd-Local amplifiers. The output of IC18 is supplied to the 1st-PLL and the 2nd-PLL. The output of IC19 is supplied to the DDS circuit. The output of IC26 is supplied to LNA_Q1. The output of IC27 is supplied to the VCO buffer amplifiers_Q17, Q33, the 1st-VCO and the 2nd-VCO via Active ripple filters_Q9, Q27, and to the Active loop filter_Q2, Q4 via the Active ripple filters_Q6.

NXR-700

CIRCUIT DESCRIPTION

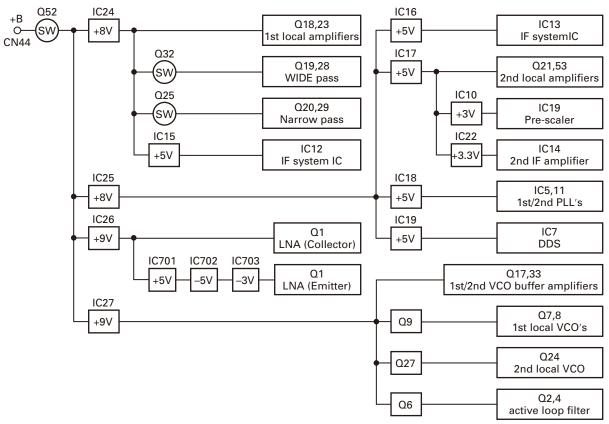


Fig. 22 AVR circuit

4-9. Other circuits

Other circuits include the EEPROM (IC31), the temperature sensor IC (IC35), the DAC (IC23) and the ADC (IC30). IC31 saves various adjustment values of the receiver unit. IC35 is built-in for detecting changes in temperature. IC23 offsets the RSSI voltage (pin1) (detected by the IF system IC (IC12)) and the 1st-VCO_A, VCO_B control voltage (pin2, pin3).

IC30 monitors the 1st-VCO control voltage (pin16), the LNA current detection value (pin15), the temperature detected by the temperature sensor IC (IC35 pin14), the RSSI voltage detected by the IF system IC (IC12 pin12), the squelch voltage detected by the IF system IC (IC12 pin11), and the control voltage of the 2nd-VCO (pin10), and outputs each state in serial data (IC30 pin18), sends the signal from CN42 (pin22) to the control unit (X53-413). The signal is processed by the MPU.

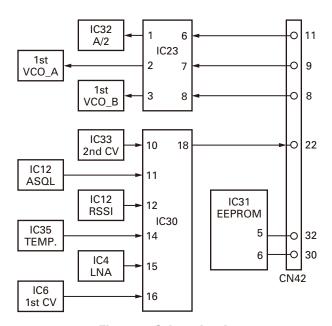


Fig. 23 Other circuits

5. Base-Band Signal Processing Part

The base-band circuit is located on unit X53-413. This circuit enables the selection of the Analog Signal Processing mode and the Digital Signal Processing mode, and adjusts the level of the base-band signals in each mode. This circuit consists of IC2, IC3, IC5, IC8, IC9, IC12, IC14, IC19, IC20 and IC21.

The type of input modulation signals are local microphone terminal, low-speed data (LSD), high-speed data (HSD), external audio input (TA), and external data input (TD), and also the type of output demodulation signals are receiving audio output (RA), and receiving data output (RD).

The multiplexer (IC2, IC3, IC14) selects the signal path, the electronic volume (IC8) adjusts the signal level, and the operational amplifiers (IC5, IC9, IC12, IC19, IC20, and IC21) amplify and sum various signals.

5-1. Demodulation circuit (Analog/NXDN signal processing)

In case of the Analog Signal Processing mode, the detected audio signal obtained from the IF SYSTEM IC (X55-307 IC8) is amplified by IC5 (A/2), input into the AINR terminal of CODEC IC (IC4), and then processed as an audio signal by the DSP (IC37). The processed audio signal from the AOUTR terminal of IC4 is amplified to a sufficient level by IC12 (A/2), and is then passed through the anti-aliasing filter at IC12 (B/2).

In case of the NXDN Signal Processing mode, the detected audio/data signal obtained from the IF SYSTEM IC (X55-307 IC7) is input into the ADC (X53-414 IC312). Receiving signal processing is performed by RX_DSP (X53-414 IC323), and voice decode processing is performed by TX_VOCODER DSP (X53-414 IC324). The processed audio signal from the AOUTL terminal of CODEC IC (X53-414 IC309) is amplified to a sufficient level by IC20 (D/4), and is then passed through the anti-aliasing filter at IC20 (C/4).

The audio signal path is selected by multiplexer (IC14) depending on the Analog mode (IC14 is setting Y=Y0) or the NXDN mode (IC14 is setting Y=Y1). The audio signal is then routed through an electronic volume (IC8) V3/V4 to multiplexer IC (IC25), and is amplified to a sufficient level to drive the loudspeaker using an audio power amplifier (IC29).

5-2. Audio amplifier aircuit

The audio amplifier circuit is located in the control section of the Control unit (X53-413).

The 3W output audio power is available from the pin15 test connector "SPO, SPG" on the rear panel to the external speaker in the case of a 13.8V power supply voltage and 4 ohm load.

5-3. Microphone circuit

The signal from the microphone is passed through the AGC circuit located in the DISPLAY circuit (X56-311 B/3) so that it may not saturate. This circuit consists of IC926, D933, D934 Q931, and Q932. The AGC controls the amplifier gains using the detected audio signal depending on the positive and negative peaks of the signal amplitude. The audio signal goes to the control section of the Control unit

(X53-413) from the DISPLAY circuit (X56-311 B/3).

5-4. Modulation circuit (Analog/NXDN signal processing)

The transmitting audio signal goes to the input terminal of the multiplexer IC (IC3) for microphone muting.

In case of the Analog Signal Processing mode (multiplexer IC3 is setting X=X0), the audio signal is amplified by IC9 (A/4), input to the AINL terminal of the CODEC IC (IC4), and audio processed by the DSP (IC37). The processed audio signal from the the AOUTL terminal of IC4 is amplified to a sufficient level by IC9 (B/4), and is then passed through an antialiasing filter at IC9 (C/4), and amplified by the summing (TD) amplifier IC9 (D/4).

On the other hand, in the case of the NXDN Signal Processing mode (multiplexer IC3 is setting X=X1), the audio signal is amplified by IC20 (A/4), input to the AINL terminal of the CODEC IC (X53-414 IC309), and processed by the TX_VOCODER DSP (X53-414 IC324). The processed audio signal from the AOUTR terminal of IC309 passes through the anti-aliasing filter at IC19 (B/2).

6. Control Circuit

The control circuit consists of two units, X53-413 and X53-414.

Unit X53-413 mainly has the power supply circuit, baseband signal path selection circuit (level adjustment is included), analog mode voice codec circuit, and RF controller circuit

Unit X53-414 has the mode selection (analog or NXDN) circuit, NXDN mode communication processing circuit, LAN interface circuit, and Compact Flash interface circuit.

6-1. X53-413

■ RF control MPU

The IC34 RF control MPU is a 16-bit single chip microprocessor incorporating 256Kbite of ROM and 20Kbite of RAM.

This MPU controls the Flash ROM, DSP, receiver unit, transmitter unit, and EEPROM of each unit, and the display circuit, and has communication I/F with external devices.

■ DSP

The DSP circuit is in charge of the filtering of transmitting and receiving signals, and the encoding and decoding of sub-audible signals (encode: QT, DQT, DTMF, decode: QT, DQT, DTMF).

This circuit consists of IC37, IC30, IC31, IC4, IC5, IC9, and IC12.

The receiving signal, DET is converted from analog to digital by IC4 with a sampling frequency of 16.128kHz. The digitized audio signal is sent to the DSP (IC37) to process the sub-audible signal and audio signal. The processed digital audio signal is applied to CODEC IC4, and is converted from digital to analog. The analog signal is output from pin16 (AOUTR). The audio signal is then amplified by IC12 (A/2), passes through the low-pass filter at IC12 (B/2), is selected by the multiplexer IC14 (Y0=Y) and is then input into an electronic volume IC8.

On the other hand, the transmitting audio signal output from IC3 is amplified by IC9 (A/4), applied to pin 3 (AINL) of CODEC IC4, and is then converted from analog to digital at a sampling frequency of 16.128kHz. The digitized transmitting audio signal is AGC-processed, pre-emphasized and filtered, except for the 300Hz to 3kHz range, by DSP IC37, and is then feed back to CODEC IC4, converted from

digital to analog, and the analog signal is output from pin15 (AOUTL). The transmitting signal from the AOUTL is amplified by IC9 (B/4), passed through the IC9 (C/4) low-pass filter, and sent to the IC9 (D/4) summing amplifier.

IC31 is a counter IC. The clock required for the CODEC and DSP is generated by dividing the 16.515072MHz clock signal supplied by the DSP IC37.

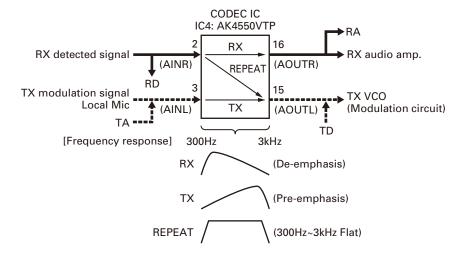


Fig. 24 An audio signal course and the frequency characteristic

■ Shift register circuit

The MPU (IC34) transmits serial data to shift registers IC923 from IC923 to IC960 and from IC960 to IC963 in the display circuit (X56-311 B/3, C/3).

Additionally, it transmit serial data to the control unit (X53-413) IC1 and IC22 and the transmitter unit (X56-311) IC703. This serial data can control various functions of each unit.

■ Power supply circuit

This circuit consists of X53-413 IC6, IC10, IC11, IC15, IC16 and 18, and X53-414 IC305, IC306, IC307 and IC329.

IC10 is a DC/DC converter that converts 13.8V to 5.0V. IC11 is a DC/DC converter that converts 13.8V to 8.0V. IC16 is the 5.0V AVR and connected to IC10. IC6, IC15, IC305 and IC329 is the 3.3V AVR. IC18 is the 1.8V AVR. IC306 is the 1.5V AVR. IC18 and IC306 is connected to IC329.

■ Flash ROM (RF control MPU)

IC17 is an 8M bit Flash ROM and contains MPU firmware for controlling the RF.

■ EEPROMs circuit

The EEPROM is a built in receiver unit (X55-309), transmitter unit (X56-311) and Final unit (X45-381).

The RF control MPU controls these EEPROMs by the IIC bus.

6-2. X53-414

■ Main MPU

The Main MPU (IC703) is a 32-bit RISC microprocessor incorporating a 16K bite cache memory.

The main MPU controls the Flash ROM, SDRAM, SRAM, LAN IC, RS-232C driver, receiver and real-time clock (RTC) IC besides RF control MPU and UART communication with modem control MPU.

■ LAN interface

NXR-700 is equipped with a 100Base-TX or 10Base-T LAN interface. This circuit consists of IC719, IC720 and J700. IC719 is a control IC. IC720 is a EEPROM, and saves the MAC address.

■ Real time clock (RTC) circuit

This circuit consists of IC710 and X701. IC710 is a Real Time Clock. X701 is a crystal oscillator. IC710 is connected to IC703 (Main_MPU) via the IIC bus. The oscillating frequency of X701 is 32.768kHz. It is backed up by a rechargeable lithium battery (BA300). The IC710 clock data is used after resetting the backup.

■ RS-232C circuit

NXR-700 is equipped with a RS-232C interface. It is connected to a PC with pin9 female RS-232C cross cable. It uses the FPU and writes the firmware. IC705 is a RS-232C driver receiver IC, and interfaces at the TTL232C level.

■ Modem control MPU

Modem control MPU (IC325) is 16-bit single chip microprocessor incorporating 256Kbites of ROM and 20Kbites of RAM

This MPU controls the Flash Rom, two DSPs, the OCXO unit in the transmitter unit (X42-328) and the PLL circuit.

It also monitors the external power supply voltage. If the voltage is abnormal, it stops the system.

■ RX DSP (IC323)

In NXDN mode, the IF signal input from the ADC (IC312) to the RX DSP is limited to a narrow band or a very narrow band. So, it passes through the IF band limitation band.

This signal is demodulated by the wave detection processing part. The demodulated wave is made to pass through the base band limitation filter (root nyquist cosine filter and 1/sinc filter).

This signal is symbol-detected and bit-judged, and is then converted to NXDN data. Its frame timing is detected and decoded for CAI (Common Air Interface: NXDN format) data error correction.

Audio data is vocoder decode processed by the IC324 TX_Vocoder_DSP. It is then converted into the PCM signal. It is analog-output as an audio signal by the DAC part of the Audio codec IC (IC309 AOUTL terminal).

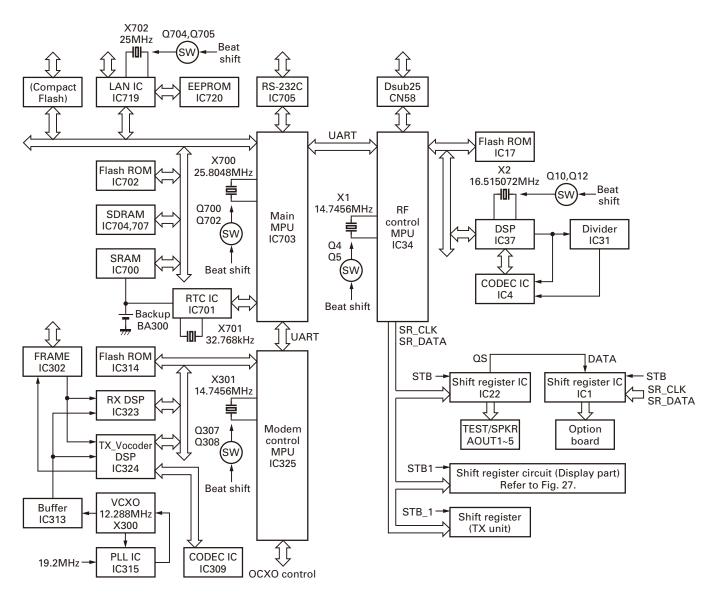


Fig. 25 Control circuit

■ TX Vocoder DSP

In NXDN mode, the AMBE+2 (TM) vocoder processing is performed by the IC324 TX_Vocoder_DSP.

Audio signal input from the Audio codec IC ADC part (IC309 AINL) terminal is vocoder encode processed and converted to audio data.

CAI data is encoded for correcting errors and converted to transmitter data.

This data is framed, converted to symbol values and made to pass the base band limitation filter (root nyquist cosine filter and sinc filter). The passed signal turns into a modulating signal. It is output as an analog signal by the Audio codec IC DAC part (IC309 AOUTR terminal).

■ Power supply voltage monitoring circuit

This circuit always monitors the external power supply voltage assuming that the abnormal power supply voltage is applied. This circuit consists of X53-413 R67, R68, R71, and R79 and IC7, and X53-414 IC308. If the voltage is reduced, these circuits interrupt the Modem control MPU (IC325) and NXR-700 rapidly shift to the power down state. The IC325 A/D converter (pin124) monitors the voltage. It detects the voltage rises and returns to the normal voltage range.

■ Reset circuit

Reset system diagrams of each device of NXR-700 are attached. With regard to the priority of the reset signal of each device, IC303 that prepares the reset signal of IC325 has the highest priority. Software of IC325 can activate devices including IC323, IC324, IC703, IC700, IC702, IC719, IC34, and IC17. Software of IC703 can activate the reset of IC325.

■ Clock shift circuit

NXR-700 control unit has a crystal oscillation circuit shown below.

X53-4130-10:

14.7456MHz (IC34 and X1)

16.515072MHz (IC37 and X2)

X53-4140-10:

14.7456MHz (IC325 and X301)

25.8048MHz (IC37 and X2)

25MHz (IC719 and X702)

Each oscillation circuit turns on the NPN transistor "2SC4738(GR)F" and staggers the oscillating frequency by approximately -70ppm. This may prevent interference against transmitter and receiver frequencies. Each transistor is turned on and off by the FPU.

■ Flash ROM (Main MPU)

IC702 is a 128M bit Flash ROM and contains the firmware of the Main MPU.

■ Flash ROM (Modem control MPU)

IC314 is an 8M bit Flash ROM and contains the firmware of the Modem control MPU, RX DSP, and TX_Vocoder_DSP.

■ SDRAM

IC704 and IC707 are program execution 128M bit memory used by the Main MPU.

■ SRAM

IC700 is a memory backed up by a lithium battery (BA300). The memory size is 16M bits. It contains data required for the system backup.

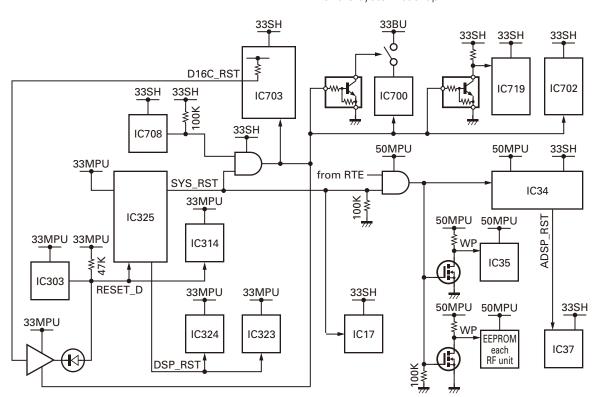


Fig. 26 Reset circuit

■ Frame synchronizing signal transmitter and receiver circuit

J702 and J703 are connectors for synchronizing with other repeaters in NXDN trunking mode. The differential rectangular wave that conforms to RS-485, 12.5Hz or 25Hz is input to and output from this connector for synchronizing multiple repeaters.

In the repeater system, any given repeater outputs a synchronizing signal and that synchronous signal is input to other remaining repeaters.

With regards to the output of the synchronous signal, the frame signal generated by TX_Vocoder_DSP (IC324) is differentially output by IC302.

With regards to the input of the synchronous signal, IC302 receives a differential signal, and is input to the interruption of the RX DSP (IC323) and TX_Vocoder_DSP (IC324).

■ 12.288MHz clock PLL circuit

The PLL circuit is installed in the control unit (X53-414) for operating the RX DSP and TX_Vocoder DSP.

The PLL circuit consists of X300 (12.288MHz VCXO), IC315 (PLL IC), Q300, Q304, Q305, and IC313.

The purpose of this PLL circuit is to synchronize with the 19.2MHz reference signal controlled by the 10MHz OCXO (deviation+/-0.4ppm) in the transmitter unit (X56-311).

So, two DSPs can be executed by a +/-0.4ppm clock deviation.

Q300 is a 19.2MHz buffer amp signal input from the transmitter unit (X56-311).

The signal from the transmitter unit is supplied to IC315 pin8 (reference signal input).

12.288MHz from X300 is amplified by Q304 and dis-

tributed to two routes. One is amplified by Q305 and input to IC315 pin6 (RF signal input). The other is amplified by IC313 and becomes a clock for the RX DSP and TX_Vocoder DSP.

IC315 compares the reference signal and RF signal and detects their phase errors.

This phase error signal is output from pin2 charge pump (CP), passed through the LPF and is supplied to X300 voltage control pin1.

7. Display Circuit

7-1. Display circuit

The display circuit (X56-311 B/3,C/3) consists of various types of LEDs, 17-segment type D960, D961 (red), D921 (red: transmission), two-color type D920 (green: busy), D922 (green: power on, red blinking: abnormal voltage), D923 (green: CTRL), two-color type D924 (red: OCXO error, green: OCXO normality, orange: external reference signal), 8-bit status LEDs D925 to D932, and LEDs with built in switches S920 to S925.

IC920 to IC925 and IC960 to IC963 are in charge of displaying present channels and states on the front panel. IC923 to IC925 and IC960 to IC963 are shift registers that convert the MPU serial data to parallel data and turn on LEDs.

7-2. Key switches circuit

The logic signals from the front panel key and channel switches (channel selector) are entered directly into the RF MPU (IC34).

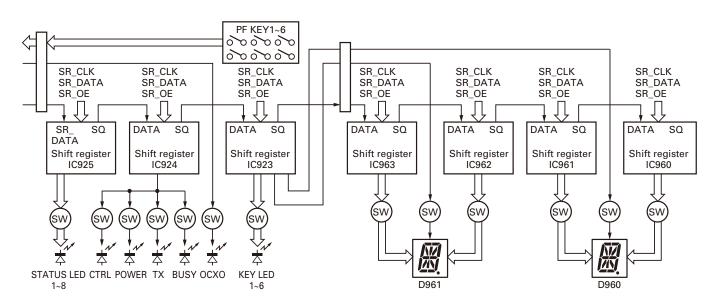


Fig. 27 Shift register circuit (Display part)

FINAL UNIT (X45-3810-10)

Ref. No.	Part Name	Description
IC1	Analogue IC	Current monitor
IC2	Analogue IC	OP AMP
IC3	MOS-IC	Voltage regulator
IC4~6	Analogue IC	OP AMP
IC7	MOS-IC	Temperature sensor
IC8	Analogue IC	OP AMP
IC9	ROM IC	E2PROM
IC10	MOS-IC	Power module
IC11,12	Bi-polar IC	Voltage regulator
IC15	Analogue IC	OP AMP
IC701	Bi-polar IC	Voltage regulator
IC702	MOS-IC	DC/DC converter
IC703	Bi-polar IC	Voltage regulator
Q2	FET	DC switch
Q3	Transistor	DC switch
Q4~6,8,14	FET	DC switch
D4	Surge absorber	Surge protection
D5,6	Diode	Surge protection
D7	Zener diode	Overvoltage protection
D9,10	Diode	Detector
D11,14~16	Diode	RF switch
D19	Zener diode	Overvoltage protection
D902	Varistor	Surge protection

CONTROL UNIT (X53-4130-10)

Ref. No.	Part Name	Description
IC1	MOS-IC	Shift register
IC2,3	MOS-IC	Multiplexer
IC4	MOS-IC	CODEC
IC5	Bi-polar IC	OP AMP
IC6	MOS-IC	Voltage regulator
IC7	MOS-IC	OP AMP
IC8	MOS-IC	D/A converter
IC9	Bi-polar IC	OP AMP
IC10,11	MOS-IC	DC/DC converter control
IC12	Bi-polar IC	OP AMP
IC14	MOS-IC	Multiplexer
IC15,16	MOS-IC	Voltage regulator
IC17	ROM IC	Flash memory
IC18	MOS-IC	Voltage regulator

Ref. No.	Part Name	Description
IC19~21	Bi-polar IC	OP AMP
IC22	MOS-IC	Shift register
IC23	MOS-IC	Nand gate
IC25	MOS-IC	Analog switch
IC27,28	MOS-IC	Buffer
IC29	MOS-IC	AF PA
IC30	MOS-IC	Nand gate
IC31	MOS-IC	Divider
IC32,33	MOS-IC	Buffer
IC34	Microprocessor IC	MPU
IC35	ROM IC	ROM-IC
IC36	MOS-IC	Buffer
IC37	Microprocessor IC	DSP
IC38	MOS-IC	And gate
IC39,40	MOS-IC	Buffer
IC41,50	MOS-IC	And gate
Q1	Transistor	Inverter
Q2,3	FET	DC/DC converter
Q4,5	Transistor	Clock shift switch
Q6,7	Transistor	AF mute switch
Q8	Transistor	Power switch
Q9	FET	Power switch
Q10	Transistor	Clock shift switch
Q11	Transistor	Buffer AMPlifier
Q12	Transistor	Clock shift switch
Q13	Transistor	Buffer AMPlifier
Q14~17	Transistor	DC/DC converter
Q18	FET	Inverter
Q19	FET	Pull up switch
Q20~23	Transistor	Power switch
Q25	Transistor	OP CONT switch
Q26	Transistor	AF mute switch
Q27~29	Transistor	Buffer AMPlifier
D1,2	Diode	DC/DC converter
D3~5	Diode	Surge protector
D6	Zener diode	Surge protector
D7~12	Diode	Surge protector
D13	Zener diode	Surge protector
D14~18,20,23	Diode	Surge protector
D24,25	Varistor	Current protector
D26	Diode	Diode switch

Ref. No.	Part Name	Description
D28	Diode	Surge protector
D29	Zener diode	Surge protector
D30	Diode	Surge protector
D31	Zener diode	Surge protector
D32	Diode	Surge protector
D33	Zener diode	Surge protector
D36,37	Diode	Surge protector
D38,39	Diode	Diode switch

CONTROL UNIT (X53-4140-10)

Ref. No.	Part Name	Description
IC300,301	MOS-IC	Buffer
IC302	MOS-IC	RS-485 driver/reciever
IC303	MOS-IC	Voltage detector
IC304	MOS-IC	Buffer
IC305~307	MOS-IC	Voltage regulator
IC308	MOS-IC	Voltage detector
IC309	MOS-IC	CODEC
IC312	MOS-IC	A/D converter
IC313	MOS-IC	Inverter
IC314	ROM IC	Flash memory
IC315	MOS-IC	12.288MHz PLL
IC318~321	MOS-IC	Buffer
IC323,324	Microprocessor IC	DSP
IC325	Microprocessor IC	MPU
IC327	MOS-IC	And gate
IC329	MOS-IC	Voltage regulator
IC330	MOS-IC	Buffer
IC700	SRAM IC	SRAM
IC701	MOS-IC	RTC IC
IC702	ROM IC	Flash memory
IC703	Microprocessor IC	MPU
IC704	DRAM IC	SDRAM
IC705	MOS-IC	RS-232C driver/reciever
IC707	DRAM IC	SDRAM
IC708	MOS-IC	Voltage detector
IC709	MOS-IC	Buffer
IC710,711	MOS-IC	Nand gate
IC712,713	MOS-IC	Or gate
IC714~718	MOS-IC	Octal buffer
IC719	MOS-IC	LAN IC

Ref. No.	Part Name	Description
IC720	ROM IC	EEPROM
IC721	MOS-IC	And gate
IC722	MOS-IC	Or gate
IC723	MOS-IC	Nand gate
IC724,725	MOS-IC	Buffer
IC726	MOS-IC	And gate
IC727,728	MOS-IC	Buffer
Q300	Transistor	Reference AMP
Q301	Transistor	DC switch
Q302	Transistor	Power switch
Q303	Transistor	Control switch
Q304,305	Transistor	Reference AMP
Q307,308	Transistor	Clock shift switch
Q309	FET	Switch
Q700,702 Q704,705	Transistor	Clock shift switch
Q706	Transistor	Control switch
Q707	Transistor	MIC switch
D300	Diode	DC Switch
D701	Diode	Switch
D702	Diode	Voltage protector

RX UNIT (X55-3090-10)

Ref. No.	Part Name	Description
IC4	MOS-IC	OP AMP
IC5	MOS-IC	Frequency PLL
IC6	MOS-IC	OP AMP
IC7	MOS-IC	DDS
IC8	MOS-IC	Buffer AMP
IC9	Bi-polar IC	1/2 divider
IC10	Bi-polar IC	Voltage regulator
IC11	MOS-IC	Frequency PLL
IC12	MOS-IC	IF system
IC13	Bi-polar IC	IF system
IC14	Analogue IC	OP AMP
IC15,16	Bi-polar IC	Voltage regulator
IC17~19	Analogue IC	Voltage regulator
IC20	Analogue IC	OP AMP
IC22	MOS-IC	Voltage regulator
IC23	Analogue IC	DAC
IC24,25	Bi-polar IC	Voltage regulator

Ref. No.	Part Name	Description
IC26~28	Analogue IC	Voltage regulator
IC29	Bi-polar IC	OP AMP
IC30	MOS-IC	ADC
IC31	ROM IC	EEPROM
IC32	Bi-polar IC	OP AMP
IC33	MOS-IC	OP AMP
IC35	MOS-IC	Temperature sensor
Q1	Transistor	LNA
Q2	Transistor	PLL active filter AMP
Q3	Transistor	RF AMP
Q4	Transistor	PLL active filter AMP
Q5	Transistor	RF AMP
Q6	Transistor	Ripple filter AMP
Q7,8	FET	Oscillator
Q9	Transistor	Ripple filter AMP
Q10,11	Transistor	DC switch
Q12	Transistor	RF AMP
Q13	Transistor	DC switch
Q14,15	FET	DC switch
Q16,17	Transistor	RF AMP
Q18~20	FET	RF AMP
Q21~23	Transistor	RF AMP
Q24	FET	Oscillator
Q25,26	FET	DC switch
Q27	Transistor	Ripple filter AMP
Q28,29	FET	RF AMP
Q30	Transistor	RF AMP
Q31,32	FET	DC switch
Q33	Transistor	RF AMP
Q34	Transistor	DC switch
Q35,36	Transistor	RF AMP
Q37	FET	DC switch
Q38~40	Transistor	RF AMP
Q50~52	FET	DC switch
Q53	Transistor	RF AMP
Q56	FET	DC switch
Q57	Transistor	DC switch
Q58~61	FET	DC switch
D1,2	Diode	Surge protection
D3~8	Variable capaci- tance diode	Frequency control
D9,10	Diode	RF switch

Ref. No.	Part Name	Description
D11,12	Variable capaci- tance diode	Frequency control
D13~16	Diode	RF switch
D17,18	Diode	Detector
D19,20	Diode	RF switch
D21	LED	PLL indicator
D22,23	Variable capaci- tance diode	Frequency control

TX UNIT (X56-3110-10)

Ref. No.	Part Name	Description
IC101	Analogue IC	RF PLL
IC102	MOS-IC	OP AMP
IC104	Analogue IC	Voltage regulator
IC201	Analogue IC	APC AMP
IC202	MOS-IC	4.5MHz DDS
IC301	BI-POLAR IC	OP AMP
IC302	MOS-IC	Buffer AMP
IC303	MOS-IC	PLL
IC304	MOS-IC	Digital potentiometer
IC305	Bi-polar IC	Summing AMP
IC306	MOS-IC	OP AMP
IC307	MOS-IC	Buffer AMP
IC308	Bi-polar IC	OP AMP
IC401	MOS-IC	OP AMP
IC404	MOS-IC	19.2MHz PLL
IC405,406	MOS-IC	Comparator
IC407	MOS-IC	Buffer AMP
IC408,409	Bi-polar IC	OP AMP
IC601	MOS-IC	5.99MHz DDS
IC602	MOS-IC	Buffer AMP
IC603	MOS-IC	Voltage regulator
IC701	Analogue IC	DAC
IC702	ROM IC	EEPROM
IC703	MOS-IC	Shift register
IC704~706	Analogue IC	Voltage regulator
IC801	Analogue IC	Voltage reference
IC802	MOS-IC	DAC
IC803	MOS-IC	ADC
IC804	MOS-IC	Temperature sensor
IC805,806	MOS-IC	3-state buffer
IC807~810	Analogue IC	Voltage regulator

Ref. No.	Part Name	Description
IC811	MOS-IC	Prescaler
IC920~922	MOS-IC	3-state buffer
IC923~925	MOS-IC	Shift register
IC926	Bi-polar IC	OP AMP
IC960	MOS-IC	Shift register
IC961~963	MOS-IC	Shift register
Q101	FET	DC switch
Q102,103	FET	RF VCO
Q104	Transistor	RF AMP
Q105	Transistor	Ripple filter AMP
Q106	Transistor	RF AMP
Q107~109	Transistor	DC switch
Q110	FET	DC switch
Q202	Transistor	RF AMP
Q203	FET	RF driver AMP
Q204~206,210	FET	DC switch
Q211~213	Transistor	RF AMP
Q301,302	FET	DC switch
Q303	Transistor	DC switch
Q304,305,307 Q401,402	Transistor	RF AMP
Q405,407~409	FET	DC switch
Q410	Transistor	DC switch
Q412	Transistor	RF AMP
Q413,414	FET	DC switch
Q415~419	Transistor	RF AMP
Q420	FET	RF AMP
Q421	FET	DC switch
Q422	FET	RF AMP
Q423,424	FET	DC switch
Q425	FET	RF AMP
Q426,428,429	FET	DC switch
Q430,431	FET	RF AMP

Ref. No.	Part Name	Description
Q601,602	FET	DC switch
Q603	Transistor	RF AMP
Q604,605	FET	DC switch
Q606	Transistor	RF AMP
Q607~609 Q701,702	FET	DC switch
Q920~930	Transistor	DC switch
Q931,932	Transistor	Audio level limiter
Q960~976	Transistor	DC switch
D101,102	Variable Capaci- tance diode	Frequency control
D106	Variable Capaci- tance diode	Moduration control
D107,108	Variable Capaci- tance diode	Frequency control
D112	Variable Capaci- tance diode	Moduration control
D201	Diode	Detector
D202	LED	Output indicator
D301	LED	PLL indicator
D401~403	Diode	Detector
D404~407	Diode	RF switch
D408	Diode	Detector
D409	Surge absorber	Ref signal output
D601,602	Diode	RF switch
D603~606	Zener diode	Limiter
D920	LED	BUSY
D921	LED	TX
D922	LED	POWER
D923	LED	CTRL
D924	LED	OCXO
D925~932	LED	Status 8~Status 1
D933,934	Diode	Audio level limiter
D935,936	Diode	Surge protection
D960,961	LED	17-segment

Final Unit (X45-3810-10) (A/5)

Pin No.	Name	I/O	Function
	CN	 l1 (То	X56-311 A/3 CN802)
1	TX SIGNAL	1	Tx driver input signal (Coaxial)
	Cľ	⊥ N2 (To	o X45-381 C/5 CN29)
1	SB	1	Power supply input
			CN8
1	-	0	5V supply output for FAN
2	-	-	Ground
			CN19
1	MONITOR	0	Receive signal input (Coaxial)
	CN	20 (To	X56-311 A/3 CN806)
1	GND	-	Ground
2	GND	-	Ground
3	NC	-	No connection
4	GND	-	Ground
5	PA_CURR	0	Power module current monitor
6	GND	-	Ground
7	FAN_CURR	0	FAN current monitor
8	GND	-	Ground
9	FWD_PWR	0	TX Forward power detection
10	GND	-	Ground
11	RFL_PWR	0	TX Reflect power detection
12	GND	-	Ground
13	PWR_PRT	I	TX power protection
14	GND	-	Ground
15	PWR_CONT	ı	TX power control
16	GND	-	Ground
17	FAN_CONT	I	FAN1 control
18	GND	-	Ground
19	FAN_CONT2	ı	FAN2 control
20	GND	-	Ground
21	TEMP_RST	1	Reset input for temperature detect IC
22	GND	-	Ground
23	ANT_SW	ı	Antenna switch
24	GND	-	Ground
25	TEMP_PRT	0	High temperature detect
26	D_GND	-	Digital ground
27	CONT_5.0V	ı	Switched 5V supply
28	D_GND	-	Digital ground
29	SCL	I	Clock input for E2PROM
30	D_GND	-	Digital ground
31	SDA	I/O	Data input/output for E2PROM

Pin No.	Name	I/O	Function
32	D_GND	-	Digital ground
33	GND	-	Ground
34	WP	ı	Write protection input for E2PROM
35	GND	-	Ground
36	GND	-	Ground
	CN21 (To X45-381 C/5 CN30)		
1	Е	-	Ground

Final Unit (X45-3810-10) (C/5)

Pin No.	Name	I/O	Function			
	CN11 (To X53-413 CN4)					
1	E	-	Ground			
2	-	-	No connection			
3	SB	0	Power supply output			
4	SB	0	Power supply output			
	CN12 (To X56-311 CN801)					
1	Е	-	Ground			
2	SB	0	Power supply output			
3	SB	0	Power supply output			
	CN15 (To X55-309 CN44)					
1	Е	-	Ground			
2	SB	0	Power supply output			
3	SB	0	Power supply output			

Final Unit (X45-3810-10) (D/5)

Pin No.	Name	I/O	Function
	CN	701 (T	o X55-309 CN6/CN36)
1	-	1	9V supply input
2	-	-	Ground
3	-	0	-3V supply output
4	-	-	Ground

Final Unit (X45-3810-10) (E/5)

Pin No.	Name	I/O	Function		
	CN905 (To X56-311 B/3 CN923)				
1	VOLUME_IN	0	Volume control output for AF signal		
2	33MPU	ı	3.3V constant voltage		
3	GND	-	Ground		
4	33AUD	ı	3.3V constant voltage		
5	SB	ı	Power supply input		
6	SCM_EN	-	No connection		
7	GND	-	Ground		

Pin No.	Name	I/O	Function
8	PTT_TXD_SCM	0	PTT output
9	HOOK_RXD_SCM	0	Hook detection output
10	MIG	-	MIC ground
11	MIC	0	MIC signal output

Control Unit (X53-4130-10)

Pin No.	Name	I/O	Function
	С	N1 (To X53-414 CN401)
1	PTT_TXD_SCM	-	No connection
2	GND	-	Ground
3	LO_VOL_DET	0	Low voltage detection signal
4	NC	-	No connection
5	TD_SW	1	TD terminal input signal mute switch
6	MICAD_SW	ı	Microphone input signal switch, changed to analog modulation or NXDN modulation
7	MIC_SW	ı	Microphone mute switch
8	RXAD_SW	ı	Speaker signal switch, changed to analog reception signal or NXDN reception signal
9	PATH_SW	I	Analog or NXDN modulation route selector switch
10	BEEP_SW	ı	Beep sound mute switch
11	TA_SW	I	TA input mute switch
12	TAAD_SW	I	TA input signal, changed to analog modulation or NXDN modulation
13	EVOL_LD	I	Load for electronic volume
14	GND	-	Ground
15	EVOL_CLK	I	Clock for electronic volume
16	PTT_AM16C	0	PTT signal
17	EVOL_DATA	I	Data for electronic volume
18	INSP_SW	-	No connection
19	AF_MUTE	I	Speaker output mute switch
20	SCM_EN	-	No connection
21	AMP_SW	1	Speaker amplifier power ON/OFF switch
22	HOOK_RXD_SCM	-	No connection
23	NC	-	No connection
24	INRA_SW	-	No connection
25	MIC_D_IN	0	NXDN transmission signal output
26	BEEP	ı	Beep sound signal input
27	RX_AUDIO_D	I	NXDN reception signal input
28	GND	-	Ground
29	MOD_D_OUT	ı	NXDN modulation signal input
30	PWR_ST_R	ı	Switch for red LED (Power sourse)

odem it error rate control MPU
odem it error rate
odem it error rate
it error rate
it error rate
it error rate
it error rate
it error rate
it error rate
it error rate
it error rate
control MPU
1ain MPU
Analog
c" signal to
Main MPU
ignal to
Main MPU
to RF
MPU to
Main MPU
h" signal

Pin No.	Name	I/O	Function
32	50MPU_A_GND	-	Ground
33	50MPU	0	5V constant voltage
34	50MPU_A_GND	-	Ground
35	GND	-	Ground
36	HI_VOL_DET	0	Voltage monitor
	CN	3 (To	X56-311 B/3 CN921)
1	DC8	0	8V constant voltage
2	GND	-	Ground
3	DC8	0	8V constant voltage
4	DC8	0	8V constant voltage
5	50MPU	0	5V constant voltage
6	50MPU	0	5V constant voltage
7	GND	-	Ground
8	DC8	0	8V constant voltage
9	K5	0	Key Scan
10	K4	0	Key Scan
11	K3	ı	Key Scan
12	K2	ı	Key Scan
13	K1	ı	Key Scan
14	GND	-	Ground
15	STB1	0	Shift Register Strobe
16	GND	-	Ground
17	SR_DATA	0	Shift Register Data
18	GND	-	Ground
19	SR_CLK	0	Shift Register Clock
20	GND	-	Ground
21	SR_OE	0	Shift Register Output Enable
22	GND	-	Ground
23	PTT_TXD_SCM	ı	MIC PTT
24	SCM_EN	-	No connection
25	HOOK_RXD_SCM	ı	HOOK detect input
26	GND	-	Ground
27	OCXO_ST_G	0	OCXO Green LED Switch
28	PWR_ST_R	0	POWER Red LED Switch
29	OCXO_ST_R	0	OCXO Red LED Switch
30	SB	0	Power supply output
31	VOLUME_IN	ı	Volume control input for AF signal
32	33AUD	0	3.3V constant voltage
33	33MPU	0	3.3V constant voltage
34	MIC	ı	MIC Signal Input
35	GND	-	Ground
36	MIG	_	MIC Ground

Pin No.	Name	I/O	Function
	CN	I4 (Та	X45-381 C/5 CN11)
1	E	_	Earth
2	NC	-	No connection
3	SB	ı	Power supply input
4	SB	ı	Power supply input
	CN5	66 (To	X56-311 A/3 CN804)
1	GND	-	Ground
2	GND	-	Ground
3	PAG	0	POCSAG Switch
4	GND	-	Ground
5	CONT_5.0V	0	5V constant voltage
6	D_GND	-	Ground
7	CONT_5.0V	0	5V constant voltage
8	D_GND	-	Ground
9	SDA	I/O	EEPROM Data
10	D_GND	-	Ground
11	SCK	0	EEPROM Clock
12	TEMP_PRT	ı	Temperature Sensor Protection Signal
13	ANT_SW	0	Transmission antenna switch
14	DDS_EN	0	Enable for DDS
15	VR_EN	0	Enable for electronic volume
16	440_EN	0	Enable for PLL
17	132_EN	0	Enable for PLL
18	440_CE	0	PLL chip select
19	132_CE	0	PLL chip select
20	LDT	ı	PLL lock detection
21	2DA_EN	0	Enable for 2ch DAC
22	3DA_EN	0	Enable for 3ch DAC
23	2DA_CE	0	Chip select for 2ch DAC
24	SR_OE	0	Shift Register Output Enable
25	8AD_EN	0	Enable for 8ch DC
26	SR_EN	0	Shift Register Strobe
27	SDI1	ı	Analog data of 8ch ADC
28	SDO0	0	Data for 3 line serial
29	SCLK1	0	Clock 1 for 3 line serial
30	SCLK0	0	Clock for 3 line serial
31	SDO1	0	Data 1 for 3 line serial
32	GND	-	Ground
33	MOD	0	Modulating signal
34	WP	0	Write protection of EEPROM
35	GND	-	Ground
36	GND	-	Ground

Pin No.	Name	I/O	Function
	C	N57	(To X55-309 CN42)
1	GND	-	Ground
2	GND	-	Ground
3	WP	0	Write protection of EEPROM
4	D_GND	-	Digital Ground
5	E2PROM_SDA	I/O	Data of EEPROM
6	CONT_5.0V	-	5V constant voltage
7	E2PROM_SCL	0	Clock of EEPROM
8	D_GND	-	Digital Ground
9	AD_CS	0	Enable for 8ch DAC
10	IF_BW_SW	0	IF_ bandwidth switch
11	AD_DAT_WRITE	0	Data 0 for 3 line serial
12	NC (IF_NW_SW)	-	No connection
13	AD_CLK	0	Clock 0 for 3 line serial
14	GND	-	Ground
15	AD_DAT_READ	ı	Analog data of 8ch ADC
16	NC	-	No connection
17	CONT_5.0V	-	5V constant voltage
18	PLL_LOCK_DET	I	PLL1,2 lock detection
19	AGC_RSSI	-	No connection
20	PLL2_EN	0	PLL 2 enabling signal
21	FM_RSSI	ı	RSSI signal input
22	NC	-	No connection
23	GND	-	Ground
24	PLL_PWR_SAVE	0	PLL1,2 chip selection signal
25	RX_AUDIO	ı	Reception audio signal
26	SIF_DAT	0	Data 0 for 3 line serial
27	GND	-	Ground
28	SIF_CLK	0	Clock 0 for 3 line serial
29	3DA_EN	0	Enable for 3ch DAC
30	PLL1_EN	0	PLL 1 enabling signal
31	VCO_BAND_SW	0	VCO bandwidth switch
32	DDS_EN	0	Enable for DDS
33	RX_POWER_SAVE	0	Power saving signal of RX unit
34	NC	-	No connection
35	GND	-	Ground
36	GND	-	Ground
	CN58 (To CO	NTR	OL I/O 25pin D-sub Connector)
1	NC	-	No connection
2	NC	-	No connection
3	NC	-	No connection
4	NC (RSSI)	-	No connection (RSSI)

Pin No.	Name	I/O	Function
5	BER_CLK	0	for Bit Error Rate Clock
6	NC	-	No connection
7	EMON	I	External monitor switch input "L"=Monitor on, "H"=Monitor off
8	NC	-	No connection
9	EPTT	I	External press-to-talk switch input "L"=PTT on, "H"=PTT off
10	Al1	I	Programmable function input 1
11	SC	0	Squelch control output "L"=Busy, "H"=Not busy
12	Al2	I	Programmable function input 2
13	BER_DAT	0	for Bit Error Rate Data
14	Al3	ı	Programmable function input 3
15	TXG	-	TX siganal ground for TA,TD
16	DG	-	Control line ground
17	IO1	I/O	Programmable function input/output 1
18	TD	ı	TX-DATA input (data or Signaling) Input impedance=600Ω Coupling=AC coupling Deviation=0.75kHz (Wide)/ 0.75kHz (Narrow) at 100Hz 0.5Vpp input
19	102		Programmable function input/output 2
20	TA	I	TX audio input (voice) Input impedance=600Ω Coupling=AC coupling Frequency response=Pre-emphasis curve Deviation=60% deviation at 1kHz 280mVrms±25mV input
21	IO3	I/O	Programmable function input/output 3
22	RD	0	RX-DATA output (data or Signaling) output impedance=1kΩ or less Coupling=AC coupling Non-squelched Frequency respones=±2.5dB at 10~3000Hz Output level=70~90mVrms (standard modulation)
23	104		Programmable function input/output 4
24	RA	0	RX-Audio output (voice) output impedance=1kΩ or less Coupling=AC coupling Squelched Frequency respones=De-emphasis curve Output level=360~440mVrms (standard modulation)
25	IO5	I/O	Programmable function input/output 5
26	RXG	-	RX siganal ground for RA, RD
27	106	I/O	Programmable function input/output 6
28	SPM	ı	Speaker mute signal input. "L"=Mute on
29	NC	-	No connection

Pin No.	Name	I/O	Function
30	NC	-	No connection
	CN59 (To	TES	T/SPKR 15pin Connector)
1	AO5	0	Auxiliary output 5
2	AO4	0	Auxiliary output 4
3	AO3	0	Auxiliary output 3
4	SPO	0	Speaker AF output
5	AO2	0	Auxiliary output 2
6	SPO	0	Speaker AF output
7	AO1	0	Auxiliary output 1
8	SPI	ı	Internal speaker AF input
9	RSSI	0	RSSI output (Analog signal output)
10	RD	0	RX-DATA output (Equal to D-sub connector terminal No22)
11	GND	-	Ground
12	SPG	-	Speaker ground
13	GND	-	Ground
14	SPG	-	Speaker ground
15	NC	-	No connection
16	NC	-	No connection
17	SB	0	Power supply output
18	NC	-	No connection
19	SB	0	Power supply output
20	NC	-	No connection
	CN	160 (To Internal Speaker)
1	SPO	0	Internal speaker AF output
2	SPG	-	Internal speaker ground

Control Unit (X53-4140-10)

Serial data inable signal to potentiometer of OCXO unit

Pin No.	Name	I/O	Function			
	CN300 (To X55-309 CN43)					
	RX_IF_VN	ı	2nd IF signal (450 kHz) of NXDN mode			
	CN3	02 (T	o X56-311 A/3 CN405)			
	REF2 (19.2MHz)	ı	19.2MHz reference clock input from TX unit			
	CN400 (To X56-311 A/3 CN805)					
1	GND	-	Ground			
2	GND	-	Ground			
3	REF_SW2	0	Control signal for reference clock change circuit			
4	WP	0	Write protection signal to EEPROM			
5	REF_SW	0	Control signal for reference clock change circuit			
6	OX_SCL	0	ADC of OCXO unit (for electric current detection) to serial clock			

		I	
Pin No.	Name	I/O	Function
7	EXT_EXIST	ı	External reference clock detection signal
8	OX_SDA	I/O	ADC of OCXO unit (for electric current detection) to serial data input/output
9	REF_EXIST	I	Reference clock detection signal
10	IMP_H_L	-	No connection
11	REF_IN_OUT	0	Control signal for reference clock change circuit
12	GND	-	Ground
13	OX_SDI2	I	Serial data input from potentiometer of OCXO unit
14	GND	-	Ground
15	OCXO_VR_EN	0	Serial data enable signal to potentio- meter of OCXO unit
16	GND	-	Ground
17	OCXO_ON	0	Power source control of OCXO unit
18	GND	-	Ground
19	OCXO_CURR	ı	Monitor of the voltage which detects current of OCXO unit
20	GND	-	Ground
21	OCXO_EXIST	I	Detection signal of OCXO unit presence
22	GND	-	Ground
23	VCXO_DA_EN	0	DDS (5.99MHz) to serial data enabling signal
24	GND	-	Ground
25	REF_LDT	I	Lock detection signal from PLL (19.2MHz)
26	GND	-	Ground
27	PLL_19_EN	0	Serial data enabling signal to PLL (19.2MHz)
28	GND	-	Ground
29	PLL_19_CE	-	No connection
30	GND	-	Ground
31	OX_SDO2	0	DAC of OCXO unit to serial data output
32	GND	-	Ground
33	OX_SCLK2	0	DAC of OCXO unit to serial clock output
34	33MPU	0	3.3V constant voltage
35	GND	-	Ground
36	GND	-	Ground
	С	1 (To X53-413 CN1)	
1	GND	-	Ground
2	GND	-	Ground
3	RX_POWER_SAVE	0	Power saving signal of RX unit
4	OCXO_ST_R	0	OCXO LED red control
5	OCXO_ST_G	0	OCXO LED green control
6	VOLUME_IN	I	Voltage monitor for audio level control
7	PWR_ST_R	0	POWER LED red control

Pin No.	Name	I/O	Function
8	MOD_D_OUT	0	Transmission modulating signal of NXDN mode
9	GND	_	Ground
10	RX_AUDIO_D	0	Reception demodulating signal of NXDN mode
11	BEEP	0	Beep sound signal output
12	MIC_D_IN	ı	Audio signal before the transmission compressing of the NXDN mode
13	INRA_SW	-	No connection
14	NC	-	No connection
15	HOOK_RXD_SCM	ı	Hook detection input
16	AMP_SW	0	Power source control of audio power amplifier
17	SCM_EN	-	No connection
18	AF_MUTE	0	Audio mute control
19	INSP_SW	-	No connection
20	EVOL_DATA	0	Serial data to DAC (for audio level adjustment)
21	PTT_AM16C	ı	"Press-to-talk-switch" signal to Main MPU
22	EVOL_CLK	0	Serial clock to DAC (for audio level adjustment)
23	GND	-	Ground
24	EVOL_LD	0	Serial load to DAC (for audio level adjustment)
25	TAAD_SW	0	Route formation signal of audio circuit
26	TA_SW	0	Route formation signal of audio circuit
27	BEEP_SW	0	Route formation signal of audio circuit
28	PATH_SW	0	Route formation signal of audio circuit
29	RXAD_SW	0	Route formation signal of audio circuit
30	MIC_SW	0	Route formation signal of audio circuit
31	MICAD_SW	0	Route formation signal of audio circuit
32	TD_SW	0	Route formation signal of audio circuit
33	NC	-	No connection
34	LO_VOL_DET	I	Detection of voltage for low voltage state
35	GND	-	Ground
36	PTT_TXD_SCM	-	No connection
	C	N402	2 (To X53-413 CN2)
1	HI_VOL_DET	I	Voltage monitor
2	GND	-	Ground
3	50MPU_A_GND	-	Ground
4	50MPU	ı	5V constant voltage
5	50MPU_A_GND	-	Ground
6	DC50	I	5V constant voltage
7	DC50	ı	5V constant voltage
8	DC50	ı	5V constant voltage

Pin No.	Name	I/O	Function
9	DC50	1	5V constant voltage
10	33MPU A GND	_	Ground
11	33MPU	1	3.3V constant voltage
12	33MPU	1	3.3V constant voltage
13	33MPU_A_GND	_	Ground
14	50MPU A	ı	5V constant voltage
15	33MPU_A	ı	3.3V constant voltage
16	33SH	0	3.3V constant voltage
17	50MPU_CONT	0	5V regurator control
18	NC	-	No connection
19	E_PTT_SH	ı	"External press-to-talk-switch" signal to Main MPU
20	SC_SH	I	"Squelch control" signal to Main MPU
21	GND	1	Ground
22	SRXD_ATXO	0	UART signal from RF control MPU to Main MPU
23	STXO_ARXO	I	UART signal from Main MPU to RF control MPU
24	GND	-	Ground
25	RF_PTT	I	"Press-to-talk-switch" signal to Main MPU
26	TX_STATE	I	"During the transmission" signal to Main MPU
27	QT_DQT	I	"Detect QT or DQT" signal to Main MPU
28	RADIO_EER	I	"Detect accident of RF block" signal to Main MPU
29	GND	-	Ground
30	ADSP_CK_SFT	0	"Frequency shift" signal to Analog mode DSP
31	TRUKING	I	"Trunking mode" signal to Main MPU
32	A16C_CK_SFT	0	"Frequency shift" signal to RF control MPU
33	BER_DAT	0	Serial data for measurement bit error rate
34	BER_CLK	0	Serial clock for measurement bit error rate
35	GND	-	Ground
36	SYS_RST	0	System reset signal from modem control MPU
		(To	COM DSUB9 connector)
1	CD	-	No connection
2	DSR	1	Data Set Ready
3	RD	1	Receive Data
4	RTS	0	Request to Send
5	SD	0	Send Data
6	CTS	-	Clear to Send
7	DTR	0	Data Terminal Ready
8	RI	-	No connection
9	GND	-	Ground

BX Unit (X55-3090-10)

Pin No.	Name	I/O	Function
		CI	N5 (To RX ANT)
1	RX_SIGNAL	I	Receive signal input (Coaxial)
	CN	6 (To	X45-381 D/5 CN701)
1	-	0	9V output
2	-	-	Ground
	CN3	6 (To	X45-381 D/5 CN701)
1	-	I	-3V input
2	-	-	Ground
			CN41
1	MONITOR_PORT	0	Use for RX BPF tuning (Coaxial)
	C	N42	(To X53-413 CN57)
1	GND	-	Ground
2	GND	-	Ground
3	NC	-	No connection
4	RX_POWER_SAVE	ı	RX power save
5	DDS_EN	ı	Enable input for DDS
6	VCO_BAND_SW	ı	VCO band switch
7	PLL1_EN	Į	Enable input for PLL1
8	DA_EN	ı	Enable input for DA
9	SIF_CLK	ı	Clock input for PLL1/PLL2/DDS/DA
10	GND	-	Ground
11	SIF_DAT	ı	Data input for PLL1/PLL2/DDS/DA
12	RX_AUDIO	0	RX audio output
13	PLL_PWR_SAVE	ı	Enable input for PLL1/PLL2
14	GND	-	Ground
15	NC	-	No connection
16	FM_RSSI	0	FM RSSI output
17	PLL2_EN	I	Enable input for PLL2
18	NC (AGC_RSSI)	-	No connection
19	PLL_LOCK_DET	0	PLL1/PLL2 lock detect output
20	CONT_5.0V	I	Switched 5V supply
21	NC	-	No connection
22	AD_CLK	0	AD logic data output
23	GND	-	Ground
24	AD_CLK	ı	Clock input for AD
25	NC (IF_NW_SW)	-	No connection
26	AD_DAT_WRITE	ı	Serial data input for AD
27	IF_BW_SW	I	IF bandwith switch input
28	AD_CS	I	Enable input for AD
29	D_GND	-	Ground
30	E2PROM_SCL	ı	Clock input for E2PROM

Pin No.	Name	I/O	Function		
31	CONT_5.0V	ı	Switched 5V supply		
32	E2PROM_SDA	I/O	Data input/output for E2PROM		
33	D_GND	-	Digital ground		
34	WP	I	Write protection input for E2PROM		
35	GND	-	Ground		
36	GND	-	Ground		
CN43 (To X53-414 CN300)					
1	RX_IF_VN	0	RX NXDN detection output		
	CN44 (To X45-381 C/5 CN15)				
1	Е	-	Ground		
2	В	I	Power supply input		
3	В	I	Power supply input		
	CN4	5 (To	X56-311 A/3 CN406)		
1	REF1	I	Reference signal input		
			CN46		
1	-	I	Use for RX MCF tuning		
2	GND	-	Ground		
	CN47				
1	-	0	Use for RX MCF tuning		
2	-	-	Ground		

TX Unit (X56-3110-10) (A/3)

Pin No.	Name	I/O	Function		
			CN403		
1	REF_OUT (10MHz)	0	Reference signal distribution (coaxial)		
	CI	1405	(To X53-414 CN302)		
1	REF2 (19.2MHz)	0	DSP reference signal output (coaxial)		
	CI	N406	(To X55-309 CN45)		
1	REF1 (19.2MHz)	0	Rx reference signal output (coaxial)		
	CN407 (To X	(42-3	28 CN2: OCXO Optional unit)		
1	осхо	I	OCXO (Optional unit) reference signal input (coaxial)		
	•		CN408		
1	REF_IN (10MHz)	ı	External reference signal input (coaxial)		
	CNS	801 (Го X45-381 C/5 CN12)		
1	Е	-	Ground		
2	В	ı	Power supply (Vcc)		
3	В	ı	Power supply (Vcc)		
	CN	802 (To X45-381 A/5 CN1)		
1	TX OUT	0	Tx driver output signal (coaxial)		
	CN803 (To X42-328 CN1: OCXO Optional unit)				
1	33MPU	0	Switched 3.3V power supply		

Pin No.	Name	I/O	Function
2	GND	-	Ground
3	OX_SDA	1/0	OCXO EEPROM serial data
4	OX_SCL	0	OCXO EEPROM serial clock
5	OCXO_VR_EN	0	Enable output for OCXO IC3 (potentiometer)
6	OCXO_ON	0	OCXO power on signal
7	OX_SCLK2	0	Serial clock output for OCXO IC3 (potentiometer)
8	OCXO_CURR	I	OCXO current detection signal
9	OX_SDI2	I	Serial data input for OCXO IC3 (potentiometer)
10	OCXO_EXIST	ı	OCXO detection signal
11	OX_SDO2	0	Serial data output for OCXO IC3 (potentiometer)
12	GND	-	Ground
13	REF_SW2	0	OCXO reference signal output switch
	CI	V804	(To X53-413 CN56)
1	GND	-	Ground
2	GND	-	Ground
3	WP	I	EEPROM write protect signal input
4	MOD	I	Moduration signal input
5	GND	-	Ground
6	SDO1	I	Serial data input for IC101, IC202, IC303, IC802, IC803
7	SCLK0	ı	Serial clock input for IC703
8	SCLK1	I	Serial clock input for IC101, IC202, IC303, IC802, IC803
9	SDO0	I	Serial data input for IC701, IC703
10	SDI1	0	Serial data output for IC803
11	SR_EN	I	Enable input for IC701, IC703
12	8AD_EN	I	Enable input for IC803
13	SR_OE	I	Enable input for IC703
14	2DA_CE	I	Chip enable input for IC802
15	3DA_EN	I	Enable input for IC701
16	2DA_EN	I	Enable input for IC802
17	LDT	0	RF PLL lock detect output
18	132_CE	I	Chip enable input for IC303
19	440_CE	I	Chip enable input for IC101
20	132_EN	ı	Load enable input for IC303
21	440_EN	I	Load enable input for IC101
22	VR_EN	I	Load enable input for IC304
23	DDS_EN	ı	Load enable input for IC202
24	ANT_SW	I	TX antenna switch input
25	TEMP_PRT	0	Temp protection signal output
26	SCK	I	EEPROM Clock

Pin No.	Name	I/O	Function
27	D_GND	-	Ground
28	SDA	I/O	EEPROM Data
29	D_GND	-	Ground
30	CONT_5.0V	I	Switched 5V power supply
31	D_GND	-	Ground
32	CONT_5.0V	I	Switched 5V power supply
33	GND	-	Ground
34	PAG	I	POCSAG Switch
35	GND	-	Ground
36	GND	-	Ground
	CN	1805	(To X53-414 CN400)
1	GND	-	Ground
2	GND	-	Ground
3	33MPU	I	Switched 3.3V power supply
4	OX_SCLK2	I	Serial clock input for IC601, IC404
5	GND	-	Ground
6	OX_SDO2	I	Serial data input for IC601, IC404
7	GND	-	Ground
8	PLL_19_CE	I	100kohm load
9	GND	-	Ground
10	PLL_19_EN	I	Enable input for IC404
11	GND	-	Ground
12	REF_LDT	0	19.2MHz PLL lock detect output
13	GND	-	Ground
14	VCXO_DA_EN	I	Enable input for IC601
15	GND	-	Ground
16	OCXO_EXIST	0	OCXO detection signal
17	GND	-	Ground
18	OCXO_CURR	0	OCXO current detection signal
19	GND	-	Ground
20	OCXO_ON	ı	OCXO power on signal
21	GND	-	Ground
22	OCXO_VR_EN	ı	Enable input for OCXO IC3 (potentiometer)
23	GND	-	Ground
24	OX_SDI2	0	Serial data output for OCXO IC3 (potentiometer)
25	GND	-	Ground
26	REF_IN_OUT	I	Reference clock switched signal input
27	IMP_H_L	I	100kohm load
28	REF_EXIST	0	Reference detector signal output
29	OX_SDA	I/O	OCXO EEPROM serial data
30	EXT_EXIST	0	External reference detector signal output

Pin No.	Name	I/O	Function
31	OX_SCL	ı	OCXO EEPROM serial clock
32	REF_SW	ı	Reference signal output switch
33	WP	ı	EEPROM write protect signal input
34	REF_SW2	ı	OCXO reference signal output switch
35	GND	_	Ground
36	GND	-	Ground
	CN8	:06 (T	Го X45-381 A/5 CN20)
1	GND	-	Ground
2	GND	-	Ground
3	WP	0	EEPROM write potect signal output
4	GND	-	Ground
5	D_GND	-	Ground
6	SDA	I/O	EEPROM Data
7	D_GND	-	Ground
8	SCK	0	EEPROM Clock
9	D_GND	-	Ground
10	CONT_5.0V	0	Switched 5V power supply
11	D_GND	-	Ground
12	TEMP_PRT	ı	Temp protection signal input
13	GND	-	Ground
14	ANT_SW	0	TX anntena switch output
15	GND	-	Ground
16	TEMP_RST	0	Tempereture sensor reset signal output
17	GND	-	Ground
18	FAN_CONT2	0	FAN2 control signal output
19	GND	-	Ground
20	FAN_CONT	0	FAN1 control signal output
21	GND	-	Ground
22	PWR_CONT	0	Power control signal output
23	GND	-	Ground
24	PWR_PRT	0	Power protection signal output
25	GND	-	Ground
26	RFL_PWR	I	Reflect power signal input
27	GND	-	Ground
28	FWD_PWR	I	Forward power signal input
29	GND	-	Ground
30	FAN_CURR	I	Fan current monitor signal input
31	GND	-	Ground
32	PA_CURR	I	PA current monitor signal input
33	GND	-	Ground
34	NC	-	No connection
35	GND	-	Ground

Pin No.	Name	I/O	Function		
36	GND	-	Ground		
CN807 (To X42-328 CN3: OCXO Optional unit)					
1	80CXO	0	OCXO power supply 8V		
2	GND	-	Ground		

TX Unit (X56-3110-10) (B/3)

Pin No.	Name	I/O	Function					
	CN920 (To X56-311 C/3 CN960)							
1	DC8	0	8V Power supply					
2	GND	-	Ground					
3	50MPU	0	Switched 5V power supply					
4	STB	0	Shift Register Strobe					
5	SR_OE	0	Shift Register Output Enable					
6	SR_CLK	0	Shift Register Clock					
7	SR_DATA	0	Shift Register Data					
8	LED1	0	D960 segment "F" control					
9	GND	-	Ground					
10	LED10	0	D961 segment "F" control					
	CN921 (To X53-413 CN3)							
1	MIG	-	MIC Ground					
2	GND	-	Ground					
3	MIC	0	MIC Signal Input					
4	33MPU	I	Switched 3.3V power supply					
5	33AUD	I	Switched 3.3V power supply					
6	VOLUME_IN	0	Volume control output for AF signal					
7	SB	I	Power supply output					
8	OCXO_ST_R	I	OCXO Red LED Switch					
9	PWR_ST_R	I	POWER Red LED Switch					
10	OCXO_ST_G	I	OCXO Green LED Switch					
11	GND	-	Ground					
12	HOOK_RXD_SCM	0	HOOK detect signal					
13	SCM_EN	-	No connection					
14	PTT_TXD_SCM	0	MIC PTT					
15	GND	-	Ground					
16	SR_OE	I	Shift Register Output Enable					
17	GND	-	Ground					
18	SR_CLK	I	Shift Register Clock					
19	GND	-	Ground					
20	SR_DATA	I	Shift Register Data					
21	GND	-	Ground					
22	STB1	I	Shift Register Strobe					
23	GND	-	Ground					

TERMINAL FUNCTION

Pin No.	Name	I/O	Function		
24	K1	0	Key Scan		
25	K2	0	Key Scan		
26	K3	0	Key Scan		
27	K4	I	Key Scan		
28	K5	ı	Key Scan		
29	DC8	ı	8V Power supply		
30	GND	-	Ground		
31	50MPU	ı	Switched 5V power supply		
32	50MPU	ı	Switched 5V power supply		
33	DC8	ı	8V Power supply		
34	DC8	ı	8V Power supply		
35	GND	-	Ground		
36	DC8	ı	8V Power supply		
	CN9	23 (T	o X45-381 E/5 CN905)		
1	VOLUME_IN	I	Volume control input for AF signal		
2	33MPU	0	Switched 3.3V power supply		
3	GND	-	Ground		
4	33AUD	0	Switched 3.3V power supply		
5	SB	0	Power supply output		
6	SCM_EN	-	No connection		
7	GND	-	Ground		
8	PTT_TXD_SCM	ı	MIC PTT		
9	HOOK_RXD_SCM	ı	HOOK detect signal		
10	MIG	-	MIC ground		
11	MIC	ı	MIC signal input		

TX Unit (X56-3110-10) (C/3)

Pin No.	Name	I/O	Function				
	CN9	60 (T	o X56-311 B/3 CN920)				
1	8V Power supply						
2	GND	-	- Ground				
3	50MPU	1	Switched 5V power supply				
4	STB	I Shift Register Strobe					
5	SR_OE	ı	Shift Register Output Enable				
6	SR_CLK	ı	Shift Register Clock				
7	SR_DATA	1	Shift Register Data				
8	LED1	ı	D960 segment "F" control				
9	GND	-	Ground				
10	LED10	I	D961 segment "F" control				

CONTROL I/O 25 pin D-sub Connector

Pin No.	Pin Name	I/O	Signal Type	Modifi- cation	Description/ Port Type	
1	NC	-	-	Default	-	
'	I INC		Digital	Land short	RSSI	
2	NC	-	-	No	-	
3	NC	-	-	No	-	
4	Al1	I	Digital	No	Programmable Function Input 1/ CMOS	
5	Al2	I	Digital	No	Programmable Function Input 2/ CMOS	
6	Al3	ı	Digital	No	Programmable Function Input 3/ CMOS	
7	DG	-	GND	No	Digital GND	
8	TD	ı	Analog	No	TX Data Input (signaling)	
9	TA	1	Analog	No	TX Audio Input (voice)	
10	RD	0	Analog	No	RX Data Output (signaling)	
11	RA	0	Analog	No	RX Audio Output (voice)	
12	RXG	-	GND	No	RX Signal GND	
13	SPM	1	Digital	No	Speaker Mute/ CMOS	
14	BER_CLK	0	Digital	No	for Bit Error Rate Clock	
15	EMON	- [Digital	No	External Monitor Switch	
16	EPTT	- [Digital	No	External PTT Switch	
17	SC	0	Digital	No	Squelch Control	
18	BER_DAT	0	Digital	No	for Bit Error Rate Data	
19	TXG	-	GND	No	TX Siganl GND	
20	IO1	I/O	Digital	No	Programmable Function I/O 1	
21	102	I/O	Digital	No	Programmable Function I/O	
22	103	I/O	Digital	No	Programmable Function I/O	
23	104	I/O	Digital	No	Programmable Function I/O 4	
24	105	I/O	Digital	No	Programmable Function I/O 5	
25	106	I/O	Digital	No	Programmable Function I/O	

LAN

Pin No.	Pin Name	I/O	Signal Type	Modifi- cation	Description/ Port Type	
1	TD+	0	Analog	No	TX Siganl +	
2	TD-	0	Analog	No	TX Siganl -	
3	RD+	1	Analog	No	RX Siganl +	
4	NC	-	-	No	-	
5	NC	-	-	No	-	
6	RD-	I	Analog	No	RX Siganl -	
7	NC	-	-	No	-	
8	NC	-	-	No	-	

TERMINAL FUNCTION

COM DSUB9 Connector

Pin No.	Pin Name	I/O	Signal Type	Modifi- cation	Description/ Port Type	
1	CD	ı	Digital	No	Carrier Detect	
2	RD	ı	Digital	No	Receive Data	
3	SD	0	Digital	No	Send Data	
4	DTR	0	Digital	No	Data Terminal Ready	
5	SG	-	GND	No	Signal GND	
6	DSR	1	Digital	No	Data Set Ready	
7	RTS	0	Digital	No	Request to Send	
8	CTS	ı	Digital	No	Clear to Send	
9	CI	ı	Digital	No	Ringer DET	

TEST/SPKR 15 pin Connector

Pin No.	Pin Name	I/O	Signal Type	Modifi- cation	Description/ Port Type
1	SB	-	Power	No	Power Supply
2	SB	-	Power	No	Power Supply
3	NC	-	-	No	-
4	GND	-	GND	No	Digital GND
5	GND	-	GND	No	Digital GND
6	SPG	-	GND	No	Speaker GND
7	RD	0	Analog	No	RX Data Output (Equal to D-sub CN.#10)
8	RSSI	0	Analog	No	RSSI Output
9	SPI	I	Analog	No	Internal Speaker Input
10	AO1	0	Digital	default	Auxiliary Output 1 Open collector
10	AOT		Digital	\$R520=47k D5=delete	Auxiliary Output 1 CMOS
11	AO2	0	Digital	default	Auxiliary Output 2 Open collector
'	AOZ		Digital	\$R519=47k D5=delete	Auxiliary Output 2 CMOS
12	SPO	0	Analog	No	External Speaker Output
13	AO3	0	Digital	default	Auxiliary Output 3 Open collector
13	AU3		Digital	\$R518=47k D5=delete	Auxiliary Output 3 CMOS
14	A O 4	0	Digital	default	Auxiliary Output 4 Open collector
14	AO4		Digital	\$R517=47k D5=delete	Auxiliary Output 4 CMOS
15	AO5	0	Digital	default	Auxiliary Output 5 Open collector
13	/100		Digital	\$R516=47k D5=delete	Auxiliary Output 5 CMOS

Microphone Connector (Left =1...Right=8, Front Pannel View)

Pin No.	Pin Name	I/O	Signal Type	Modifi- cation	Description/ Port Type
1	NC	-	-	No	-
2	SB	-	Power	No	Power
3	GND	-	GND	No	Digital GND
4	PTT	I	Digital	No	PTT Signal/ CMOS Active Lo
5	MIG	-	-	No	MIC GND
6	MIC	- [Analog	No	MIC Input
7	ноок	I	Digital	No	HOOK Detect Signal CMOS, Active Lo
8	NC	-	-	No	-

Frame Synchronous Connector (Left =1...Right=4, Rear Pannel View)

Thare are two connectors at the rear pannel, these are the same function.

Pin No.	Pin Name	I/O	Signal Type	Modification Description/ Port Type	
1	FRMA	I/O	-	No	RS-485 Differential Signal A
2	NC	-	-	No	-
3	NC	-	-	No -	
4	FRMB	I/O	-	No	RS-485 Differential Signal B

CAPACITORS

CC 45 ΤН 220 4

1 = Type ... ceramic, electrolytic, etc.

2 = Shape ... round, square, etc.

3 = Temp. coefficient

4 = Voltage rating

5 = Value

6 = Tolerance



· Capacitor value

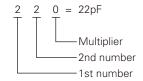
010 = 1pF

100 = 10pF

101 = 100pF

 $102 = 1000 pF = 0.001 \mu F$

 $103 = 0.01 \mu F$



• Temperature coefficient

1st Word	С	L	Р	R	S	Т	U
Color* Black		Red	Orange	Yellow	Green	Blue	Violet
ppm/°C	0	-80	-150	-220	-330	-470	-750

2nd Word	G	Н	J	K	L
ppm/°C	±30	±60	±120	±250	±500

Example: $CC45TH = -470\pm60ppm/^{\circ}C$

• Tolerance (More than 10pF)

Code	С	D	G	J	K	М	Х	Z	Р	No code	
(%)	±0.25	±0.5	±2	±5	±10	±20	+40	+80	+100	More than 10μF: -10~+50	
							-20	-20	-0	Less than 4.7μF : -10~+75	

(Less than 10pF)

Code	В	С	D	F	G
(pF)	±0.1	±0.25	±0.5	±1	±2

· Voltage rating

	_										
2nd word	А	В	С	D	Е	F	G	Н	J	K	V
1st word											
0	1.0	1.25	1.6	2.0	2.5	3.15	4.0	5.0	6.3	8.0	-
1	10	12.5	16	20	25	31.5	40	50	63	80	35
2	100	125	160	200	250	315	400	500	630	800	-
3	1000	1250	1600	2000	2500	2150	4000	5000	6300	8000	_

Chip capacitors

(EX) CC 73 F 3 1 2 4 (Chip) (CH, RH, UJ, SL)

(Chip) (B, F)

Refer to the table above.

1 = Type

2 = Shape

3 = Dimension

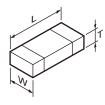
4 = Temp. coefficient

5 = Voltage rating

6 = Value

7 = Tolerance

Dimension



Chip capacitor

Code	L	W	Т
Empty	5.6±0.5	5.0±0.5	Less than 2.0
А	4.5±0.5	3.2±0.4	Less than 2.0
В	4.5±0.5	2.0±0.3	Less than 2.0
С	4.5±0.5	1.25±0.2	Less than 1.25
D	3.2±0.4	2.5±0.3	Less than 1.5
Е	3.2±0.2	1.6±0.2	Less than 1.25
F	2.0±0.3	1.25±0.2	Less than 1.25
G	1.6±0.2	0.8±0.2	Less than 1.0
Н	1.0±0.05	0.5±0.05	0.5±0.05

Chip resistor

Code	L	W	Т
E	3.2±0.2	1.6±0.2	1.0
F	2.0±0.3	1.25±0.2	1.0
G	1.6±0.2	0.8±0.2	0.5±0.1
Н	1.0±0.05	0.5±0.05	0.35±0.05

· Rating wattage

	3				
Code	Wattage	Code	Wattage	Code	Wattage
1J	1/16W	2C	1/6W	3A	1W
2A	1/10W	2E	1/4W	3D	2W
2B	1/8W	2H	1/2W		

RESISTORS

· Chip resistor (Carbon)

 $\frac{2 \text{ B}}{5} \quad \frac{0 0 0}{6} \quad \frac{\text{J}}{7}$ (EX) RD 73 E 3 4 (Chip) (B, F)

· Carbon resistor (Normal type)

(EX) RD 14 2 C 0 0 0 J 3 5

1 = Type5 = Rating wattage

2 = Shape 6 = Value 3 = Dimension7 = Tolerance

4 = Temp. coefficient

PARTS LIST

* New Parts. Aindicates safety critical components.

Parts without Parts No. are not supplied.

Les articles non mentionnes dans le Parts No. ne sont pas fournis.

Teile ohne Parts No. werden nicht geliefert.

NXR-700 (Y54-3240-10) FINAL UNIT (X45-3810-10) L : Scandinavia K: USA P : Canada

Y : PX (Far East, Hawaii)	T : England	E : Europe
Y : AAFES (Europe)	X : Australia	M : Other Areas

Ref. No.		New parts	Parts No.	Description	Desti- nation	Ref. No.	Address	New parts	Parts No.		Description	n	Desti- nation
			NX	R-700		D E	2C,1D 2A	*	N30-2606-48 N30-3016-43	PAN HEAD N			
1	ЗА	*	A62-1142-02	MAIN PANEL		F	2D,3D	*	N32-3006-43	1		REW (TOP,REAR)	
3	1E 3A	*	B10-2781-04 B11-1841-04	FRONT GLASS ACCESSORY FILTER		G H	3A,1E 1B,1C		N32-4008-43 N67-3008-48	FLAT HEAD S		CREW (PANEL) W (AVR)	
5	3A	*	B11-1842-04	FILTER		J	3B		N80-2006-43	PAN HEAD 1	TAPTITE SCF	REW (DISP)	
6 7	3A 3A	*	B11-1843-04 B11-1844-04	FILTER FILTER		K L	1D 1B,2C		N80-2608-43 N87-2608-48	PAN HEAD 1 BRAZIER HE		SCREW (PCB)	
8	3A	*	B42-7296-04	STICKER (NEXEDGE)		57	3A	*	T07-0347-15	SPEAKER			
9	3A	*	B43-1188-04	BADGE									
10	1F	*	B62-1994-00	INSTRUCTION MANUAL									
12 13	2B 1F	*	E04-0463-05 E30-3344-25	RF COAXIAL RECEPTACLE (BNC) DC CORD ACCESSORY					FINAL UNIT	(X45-38	310-10)	
14	1B	*	E30-7581-05	DC CORD		C1,2		*	CD04BD1H101M	ELECTRO	100UF	50WV	
15	2C	*	E30-7582-05	TRUNK CABLE		C7,8		*	CE32BM1V220M	CHIP EL	22UF	35WV	
16	1B,2C	*	E30-7583-05	TRUNK CABLE		C10,11 C15-17			CK73GB1H102K	CHIP C	1000PF	K	
17	1B,1C	*	E37-1295-05	FLAT CABLE		C15-17 C21			CK73GB1H103K CK73GB1H102K	CHIP C	0.010UF 1000PF	K K	
18	1B,10	*	E37-1299-05	LEAD WIRE WITH TERMINAL (FUSE-DC +)		"			5.07 GGD 11110ZIX	31111 0	100011		
19	1B	*	E37-1300-05	LEAD WIRE WITH TERMINAL (FUSE-DC-)		C25,26			CK73GB1H103K	CHIP C	0.010UF	K	
20	1B	*	E37-1301-05	LEAD WIRE WITH TERMINAL (DC-PA +)		C29,30			CK73GB1H102K	CHIP C	1000PF	K	
21	1B	*	E37-1302-05	LEAD WIRE WITH TERMINAL (DC-PA-)		C32 C33		*	CE32BM1V220M	CHIP EL CHIP EL	22UF 10UF	35WV	
22	2C	*	E37-1303-05	LEAD WIRE WITH CONNECTOR (BNC-RX)		C33		*	CE32AU1E100M CK73GB1H102K	CHIP EL	100F 1000PF	25WV K	
23	1D	*	E37-1303-05	LEAD WIRE WITH CONNECTOR (BNC-REF.)		1			5.07 GGD 11110ZIX	31.111 0	100011		
24	1B	*	E37-1305-05	LEAD WIRE WITH CONNECTOR (DC-TX)		C37			CK73GB1H103K	CHIP C	0.010UF	K	
25	1C	*	E37-1306-05	LEAD WIRE WITH CONNECTOR (DC-CONT)		C38		*	CE32AU1E100M	CHIP EL	10UF	25WV	
26	2C	*	E37-1307-05	LEAD WIRE WITH CONNECTOR (DC-RX)		C39			CK73GB1H102K	CHIP C	1000PF	K	
27	2D	*	E37-1308-05	LEAD WIRE WITH CONNECTOR (RX-DCDC)		C40 C41,42			CK73GB1H103K CK73GB1H102K	CHIP C	0.010UF 1000PF	K K	
28	1D	*	E37-1310-05	LEAD WIRE WITH CONNECTOR (DSUB-25P)		071,74			OK OGD II I I UZK	011111111111111111111111111111111111111	1 JUUI I	^	
29	3B	*	E37-1311-05	LEAD WIRE WITH CONNECTOR (DSUB-9P)		C44			CE32CL1V100M	CHIP EL	10UF	35WV	
30	2D	*	E37-1313-05	LEAD WIRE WITH CONNECTOR (ACC15)		C45,46			CK73GB1H102K	CHIP C	1000PF	K	
31	3B	*	E37-1314-05	LEAD WIRE WITH CONNECTOR (DISP-MIC)		C47			CK73GB1H103K	CHIP C	0.010UF	K	
32	3B	*	E37-1315-05	LEAD WIRE WITH CONNECTOR (DISP-17SEG)		C49 C50-52			CK73GB1H104K CK73GB1H102K	CHIP C	0.10UF 1000PF	K K	
33	2B	*	E37-1316-05	LEAD WIRE WITH CONNECTOR (SP)		030-32			GR/3GB111102R	OTHI C	100011	K	
34	1E	,	E37-1381-05	15P PLUG ACCESSORY		C53			CK73GB1H103K	CHIP C	0.010UF	K	
						C54			CK73GB1H102K	CHIP C	1000PF	K	
35	1D,1E		F05-7521-05	BLADE FUSE (7.5A/32V) ACCESSORY		C58			CK73GB1H102K	CHIP C	1000PF	K	
37 38	2A 1D	*	F07-1930-05 F09-0445-05	COVER (FAN) CAP		C59 C60			CK73GB1H103K C93-0603-05	CHIP C	0.010UF 1000PF	K K	
38	3B	*	F09-0445-05	CAP		600			G33-U0U3-U3	UNIF U	TUUUPF	IV.	
40	2A	*	F09-0488-05	FANMOTOR		C61			CK73GB1H102K	CHIP C	1000PF	K	
						C62			CK73GB1H103K	CHIP C	0.010UF	K	
42	3A		G10-1343-04	FIBROUS SHEET		C63-65			CK73GB1H102K	CHIP C	1000PF	K	
43	2B	*	G11-4408-04	RUBBER SHEET		C67			CK73GB1H102K	CHIP C	1000PF	K	
44	3A	*	G13-2163-04	CUSHION (PF)		C68			CE32CL1V100M	CHIP EL	10UF	35WV	
46	3B	*	J19-5496-02	HOLDER (DISP)		C70			CK73GB1H103K	CHIP C	0.010UF	K	
47	1C	*	J19-5497-05	HOLDER (CF)		C71-75			CK73GB1H102K	CHIP C	1000PF	K	
48	1E	*	J29-0725-04	BRACKET (SIDE)		C77,78			CK73GB1H102K	CHIP C	1000PF	K	
49	3A 2D	*	J39-0655-03	SPACER (SP)		C80			CK73GB1H103K	CHIP C	0.010UF		
50	ZU		J61-0307-05	BAND (DC)		C82			CK73GB1H104K	CHIP C	0.10UF	K	
52	1E		K01-0421-05	HANDLE ACCESSORY		C83			CK73GB1H102K	CHIP C	1000PF	K	
53	3A		K29-4539-04	KNOB (VOLUME)		C85			CC73GCH1H330J	CHIP C	33PF	J	
						C86			CK73GB1H103K	CHIP C	0.010UF		
55	1F		L79-1419-05	LINE FILTER (DC)		C87			CC73GCH1H470J	CHIP C	47PF	J	
_	1E		N08-0563-04	DRESSED SCREW (RFONT GLASS)		C88-90			CK73GB1H102K	CHIP C	1000PF	K	
A B	3B,1D	*	N09-2292-05	HEXAGON HEAD SCREW (DSUB)		C94,95			CK73GB1H104K	CHIP C	0.10UF	K	
C	1C	*	N30-2008-43	PAN HEAD MACHINE SCREW (CF)		C96-102			CK73GB111104K	CHIP C	1000PF	K	
				, , ,									

Ref. No.	Address	New	Parts No.		Descriptio	n	Desti-	Ref. No.	Address	New	Parts No.	Descri		UNIT (X4	Dest
C104	-	parts	CK73GB1H102K	CHIP C	1000PF	 К	nation	CN15		parts	E41-2672-05	PIN ASSY			natio
C105								CN15 CN19							
			C93-0603-05	CHIP C	1000PF	K					E04-0193-05	PIN SOCKET			
106			CK73GB1H102K	CHIP C	1000PF	K		CN20			E40-6656-05	PIN ASSY			
108,109			CK73GB1H102K	CHIP C	1000PF	K		CN701		*	E41-2741-05	PIN ASSY			
112			CK73GB1H102K	CHIP C	1000PF	K		CN905		*	E41-1483-05	PIN ASSY			
113,114			CK73GB1H472K	CHIP C	4700PF	K		J901		*	E58-0526-05	MODULAR JACK			
115			CK73GB1H102K	CHIP C	1000PF	K									
117			CK73GB1H103K	CHIP C	0.010UF	K		CN4			J13-0071-05	FUSE HOLDER			
122,123			C93-0569-05	CHIP C	56PF	J									
124			CK73GB1H102K	CHIP C	1000PF	K		L1			L92-0179-05	CHIP FERRITE			
								L3			L79-0558-05	FILTER			
126			C93-0563-05	CHIP C	18PF	J		L4			L92-0131-05	CHIP FERRITE			
127,128			CK73GB1H102K	CHIP C	1000PF	K		L9			L34-4638-05	AIR-CORE COIL			
131			C93-0566-05	CHIP C	33PF	J		L10		*	L34-4614-05	AIR-CORE COIL			
133,134			CK73GB1H102K	CHIP C	1000PF	K		12.0		·	201 1011 00	7 III GOILE GOILE			
138			CE32CL1V100M	CHIP EL	10UF	35WV		L12		*	L34-4522-05	AIR-CORE COIL			
30			GESZGET V TOOIVI	CIIII LL	1001	33444									
41			000 0000 05	CLUD C	100005	V		L13-15		*	L34-4521-05	AIR-CORE COIL			
41			C93-0603-05	CHIP C	1000PF	K		L17			L34-4523-05	AIR-CORE COIL	0.000	- 01	
47			C93-0566-05	CHIP C	33PF	J		L18			L41-5668-14	SMALL FIXED INDU			
49			C93-0561-05	CHIP C	12PF	J		L701,702			L41-4705-33	SMALL FIXED INDU	CTOR (4	17UH)	
50			CK73GB1H104K	CHIP C	0.10UF	K		1							
58			C93-0564-05	CHIP C	22PF	J		L703,704			L41-1095-33	SMALL FIXED INDU	CTOR (1	I.0UH)	
								L900		*	L92-0447-05	BEADS CORE	1,	,	
59			C93-0553-05	CHIP C	3.0PF	С		1							
61			CC73GCH1H120J	CHIP C	12PF	J		CP1			RK75GB1J103J	CHIP-COM 10K	J 1	1/16W	
62			CK73GB1H104K	CHIP C	0.10UF	K		R1			RK73FB2B271J	CHIP R 270		1/10 VV 1/8W	
														-	
67			CK73GB1H104K	CHIP C	0.10UF	K		R2			RK73FB2B180J	CHIP R 18		1/8W	
9,170			CK73GB1H102K	CHIP C	1000PF	K		R3			RK73FB2B271J	CHIP R 270		1/8W	
								R4		*	R92-3604-05	CHIP R 0.047	D 1	1W	
37,188		*	C92-0905-05	OS-CON	47UF	35WV									
39			CK73GB1H103K	CHIP C	0.010UF	K		R9			RK73GB2A101J	CHIP R 100	J 1	1/10W	
90			CK73GB1H102K	CHIP C	1000PF	K		R11			RS14DB3A4R7J	FL-PROOF RS 4.7	J 1	1W	
91			CK73GB1E105K	CHIP C	1.0UF	K		R12,13			RK73GB2A103J	CHIP R 10K	J 1	1/10W	
92			CC73FCH1H820J	CHIP C	82PF	J		R15			RK73GB2A332J	CHIP R 3.3K	J 1	1/10W	
								R17			RK73GB2A103J	CHIP R 10K	J 1	1/10W	
01			CK73GB1E105K	CHIP C	1.0UF	K									
02,703			CK73GB1H102K	CHIP C	1000PF	K		R18			RK73GB2A473J	CHIP R 47K	J 1	1/10W	
02,700		*	CE32AU1E100M	CHIP EL	10UF	25WV		R20			RK73GB2A104J	CHIP R 100K		1/10W	
		~	CK73GB1E105K					1							
05				CHIP C	1.0UF	K		R21,22			RK73GB2A184J	CHIP R 180K		1/10W	
06,707			CK73GB1H102K	CHIP C	1000PF	K		R23			RK73FB2B000J	CHIP R 0.0		1/8W	
			0500014140014	OLUB FI	40115	051487		R25			RK73GB2A104J	CHIP R 100K	J 1	1/10W	
08			CE32CL1V100M	CHIP EL	10UF	35WV									
09		*	CE32AU1C330M	CHIP EL	33UF	16WV		R26			RK73EB2E820J	CHIP R 82		1/4W	
10			CK73GB1H104K	CHIP C	0.10UF	K		R27			RK73GB2A224J	CHIP R 220K	J 1	1/10W	
11			CS77CB21C100M	CHIP TNTL	10UF	16WV		R28			RK73GB2A474J	CHIP R 470K	J 1	1/10W	
12		*	CE32AU1C330M	CHIP EL	33UF	16WV		R29,30			RK73GB2A103J	CHIP R 10K		1/10W	
								R31-33			RK73GB2A104J	CHIP R 100K		1/10W	
13,714			CK73GB1H104K	CHIP C	0.10UF	K		1							
15		*	CE32AU1C330M	CHIP EL	33UF	16WV		R34			RK73FB2B8R2J	CHIP R 8.2	J 1	1/8W	
6		.	CK73GB1H104K	CHIP C	0.10UF	K		R35,36			RK73GB2A823J	CHIP R 82K		1/10W	
7,718			CK73GB1H104K	CHIP C	1000PF	K		R37			RK73GB2A0233	CHIP R 100K		1/10W	
						K		R38							
00			CK73GB1H104K	CHIP C	0.10UF	Λ		1			RK73FB2B151J	CHIP R 150		1/8W 1/10M	
11			CV79CB1LI109V	CHIBC	100000	V		R39,40			RK73GB2A274J	CHIP R 270K	J 1	1/10W	
01			CK73GB1H102K	CHIP C	1000PF	K		 			DIVZ00D0 A CCC I	OLUB B		4 (4 0) 4 (
02			CC73GCH1H101J	CHIP C	100PF	J		R41			RK73GB2A000J	CHIP R 0.0		1/10W	
)4			CC73GCH1H101J	CHIP C	100PF	J		R42			RK73FB2B8R2J	CHIP R 8.2		1/8W	
)5			CK73FB0J106K	CHIP C	10UF	K		R44			RK73FB2B8R2J	CHIP R 8.2	J 1	1/8W	
6-908			CK73GB1H102K	CHIP C	1000PF	K		R45,46			RK73GB2A000J	CHIP R 0.0	J í	1/10W	
								R47			RK73FB2B151J	CHIP R 150	J 1	1/8W	
9,910			CC73GCH1H101J	CHIP C	100PF	J									
12,913			CC73GCH1H101J	CHIP C	100PF	J		R49			RK73GB2A000J	CHIP R 0.0	J 1	1/10W	
14			CK73GB1H104K	CHIP C	0.10UF	K		R50,51			RK73GB2A104J	CHIP R 100K		1/10W	
15			CC73GCH1H101J	CHIP C	100PF	J		R52			RK73FB2B8R2J	CHIP R 8.2		1/8W	
								1							
16			CK73GB1H102K	CHIP C	1000PF	K		R53,54			RK73GB2A154J	CHIP R 150K		1/10W	
11			E04 0102 0F	DINI COCKET				R55-58			RK73GB2A104J	CHIP R 100K	J 1	1/10W	
11			E04-0193-05	PIN SOCKET				DE0.00			DI/70CD0 A 4 CC 1	CLUD D 1011		1 /1 0\4/	
2			E23-0902-05	TERMINAL				R59,60			RK73GB2A103J	CHIP R 10K		1/10W	
8			E41-2671-05	PIN ASSY				R61			RK73EB2E680J	CHIP R 68	J 1	1/4W	
111	1		E41-2673-05	PIN ASSY				R62			RK73GH2A563D	CHIP R 56K	D 1	1/10W	
								R63			RK73GH2A333D	CHIP R 33K	D 1		

PARTS LIST

FINAL UNIT (X45-3810-10) CONTROL UNIT (X53-4130-10)

Ref. No. R64 R65 R66	Address	New parts	Parts No.	Description	Desti-	llbra							
R65				Description	nation	Ref. No.	Address	New parts	Parts No.		Descriptio	n	Desti- nation
R65			RK73GB2A474J	CHIP R 470K J 1/1	W	IC701			NJM78L05UA-ZB	BI-POLAR IC			
			RK73GB2A473J	CHIP R 47K J 1/1		IC702		*	LTC1046IS8	MOS-IC			
TIP.			RK73GB2A100J	CHIP R 10 J 1/1		IC703		*	TK72130CS	BI-POLAR IC			
R67			RS14DB3A121J	FL-PROOF RS 120 J 1W	**	02			SSM3K15TE(F)	FET			
					۱۸/	03				FET			
R68			RK73GB2A104J	CHIP R 100K J 1/1	vv	l l u3		*	SSM3J01F	FEI			
R69			RK73GB2A103J	CHIP R 10K J 1/1	W	Q4			2SJ506-E(S)	FET			
370-72			RK73GB2A000J	CHIP R 0.0 J 1/1	W	Ω5,6			SSM3K15TE(F)	FET			
R75,76			RK73GB2A472J	CHIP R 4.7K J 1/1		Ω8			SSM3K15TE(F)	FET			
378			RK73GB2A104J	CHIP R 100K J 1/1		Q14			SSM3K15TE(F)	FET			
R89			RK73GB2A000J	CHIP R 0.0 J 1/1					OOMORTSTE(I)	'-'			
R92 R102			RK73GB2A104J RK73GH2A471D	CHIPR 100K J 1/1 CHIPR 470 D 1/1		l 		_					
				· ·		11		C	ONTROL UN	IT (X53-	4130-1	(0)	
3104			RK73GB2A393J	· ·		04.5	1		01/700004114001/	OLUD O	400000	1/	
R105			RK73GB2A000J	CHIP R 0.0 J 1/1		C1-5			CK73GB1H102K	CHIP C	1000PF	K	
R106			RK73GB2A474J	CHIP R 470K J 1/1	W	C6			CC73GCH1H101J	CHIP C	100PF	J	
						C7			CK73GB1H102K	CHIP C	1000PF	K	
R107			RK73GB2A000J	CHIP R 0.0 J 1/1	W	C8			CC73GCH1H101J	CHIP C	100PF	J	
R110			RK73GB2A394J	CHIP R 390K J 1/1	W	C9			CK73GB1H102K	CHIP C	1000PF	K	
R121			RK73GH2A103D	CHIP R 10K D 1/1		11							
R123			RK73GB2A103J	CHIP R 10K J 1/1		C10			CC73GCH1H101J	CHIP C	100PF	J	
R124			RK73FB2B100J	CHIP R 10 J 1/8		C12-16			CK73GB1H102K	CHIP C	1000PF	K	
1124			רווע טו טבט 1000	OI III IU	v	C12-16			CK73GB1H102K	CHIP C		K	
1105			D00 1001 05	ILIMADED DECT. O OVIII 4							1000PF		
3125			R92-1061-05	JUMPER REST 0 OHM		C29			CC73GCH1H101J	CHIP C	100PF	J	
R133			RK73GB2A102J	CHIP R 1.0K J 1/1		C30-33			CK73GB1H102K	CHIP C	1000PF	K	
R136			RK73GB2A394J	CHIP R 390K J 1/1	W								
3137-140			RK73GB2A104J	CHIP R 100K J 1/1	W	C34			CC73GCH1H101J	CHIP C	100PF	J	
R142			RK73GB2A000J	CHIP R 0.0 J 1/1	W	C35			CK73GB1H102K	CHIP C	1000PF	K	
						C36			CC73GCH1H101J	CHIP C	100PF	J	
R144			RK73GB2A000J	CHIP R 0.0 J 1/1	W	C37			CK73GB1H104K	CHIP C	0.10UF	K	
R900			RK73GB2A000J	CHIP R 0.0 J 1/1		C39-47			CK73GB1H102K	CHIP C	1000PF	K	
R901			RK73GB2A0003	· ·		033-47			GR/3GD11110ZR	Cilli C	100011	K	
				· ·					007000114114041	OLUD O	400DE		
R902			RK73GB2A000J	CHIP R 0.0 J 1/1		C49			CC73GCH1H101J	CHIP C	100PF	J	
R903			RK73GB2A681J	CHIP R 680 J 1/1	W	C50-53			CK73GB1H102K	CHIP C	1000PF	K	
						C54			CC73GCH1H101J	CHIP C	100PF	J	
3905,906			RK73GB2A000J	CHIP R 0.0 J 1/1	W	C55			CK73GB1H102K	CHIP C	1000PF	K	
R907			RK73GH2A153D	CHIP R 15K D 1/1	W	C56			CC73GCH1H101J	CHIP C	100PF	J	
3909			RK73GB2A000J	CHIP R 0.0 J 1/1	W								
R910			RK73GB2A182J	CHIP R 1.8K J 1/1	W	C57			CK73GB1H102K	CHIP C	1000PF	K	
3911,912			RK73GB2A000J	CHIP R 0.0 J 1/1		C58			CC73GCH1H101J	CHIP C	100PF	J	
1011,012			1117 0 0 0 2 7 10 0 0 0	0.0 0 1/1	**	C60-62			CK73GB1H102K	CHIP C	1000PF	K	
3914			RK73GB2A222J	CHIP R 2.2K J 1/1	۱۸/	C63			CK73GB1H104K	CHIP C	0.10UF	K	
				,									
/R1			R32-0744-05	SEMI FIXED VARIABLE RESIST		C64			CK73GB1H102K	CHIP C	1000PF	K	
/R2			R32-0754-05	SEMI FIXED VARIABLE RESIST	IK	11							
/R902		*	R31-0668-05	POTENTIOMETER (10K)		C65			CK73FB0J106K	CHIP C	10UF	K	
						C66			CK73GB1H102K	CHIP C	1000PF	K	
)4			Z5W27V	SURGE ABSORBER		C67			CK73FB0J106K	CHIP C	10UF	K	
05			DSM3MA1-RPB	DIODE		C68			CK73GB1H102K	CHIP C	1000PF	K	
06			1SS355	DIODE		C69			CK73GB1H104K	CHIP C	0.10UF	K	
07		*	02CZ5.6(Y)F	ZENER DIODE						-			
09,10		•	HSB88WS	DIODE		C70			CK73GB1H102K	CHIP C	1000PF	K	
,0,10			110000440	DIODE		C71			CK73FB0J106K	CHIP C	1000F	K	
211			17001CED	DIODE									
011			L7091CER	DIODE		C72			CK73GB1E105K	CHIP C	1.0UF	K	
014-16			L7091CER	DIODE		C73			CC73GCH1H101J	CHIP C	100PF	J	
019		*	02CZ4.7(Y)F	ZENER DIODE		C74			CK73GB1H104K	CHIP C	0.10UF	K	
0902			AVRM16270MABB	VARISTOR		[]							
C1		*	LTC6101BIS5-F	ANALOGUE IC		C75			CC73GCH1H101J	CHIP C	100PF	J	
						C76			CK73GB1H102K	CHIP C	1000PF	K	
C2			NJM2904E-ZB	ANALOGUE IC		C77		*	C93-0912-05	CHIP C	100UF	M	
C3			TA78L05FF	MOS-IC		C78			CK73FB0J106K	CHIP C	10UF	K	
C4-6			NJM2904E-ZB	ANALOGUE IC		C79-82			CK73GB1H104K	CHIP C	0.10UF	K	
						0/3-02			א4טוווועטעראט.	OT III O	U. IUUF	N	
C7		*	S-8130AC	MOS-IC		1 000 00			01/70500 14001/	OLUB C	40172	V	
C8			NJM2904E-ZB	ANALOGUE IC		C83-86			CK73FB0J106K	CHIP C	10UF	K	
						C87		*	C93-0912-05	CHIP C	100UF	M	
C9			S24CS02AFJTBG	ROM IC		C88			CK73GB1H103K	CHIP C	0.010UF	K	
C10	1A		RA13H1317M131	MOS-IC		C89,90			CC73GCH1H221J	CHIP C	220PF	J	
C11	1B		NJM7808FA-ZB	BI-POLAR IC		C92			CC73GCH1H100D	CHIP C	10PF	D	
C12	1B	*	NJM7805FA-ZB	BI-POLAR IC		11 ""			23,000	3 0		-	
C12	וייי	-,		ANALOGUE IC		C95		*	C93-0912-05	CHIP C	100UF	M	
	1		NJM2904E-ZB	ANALUUUE IL		C96		*		CHIP C	1000F 100PF	J	
U10					1	I I I.Yh	1	İ	CC73GCH1H101J	CHIPT	THIPL	1	1

CONTROL UNIT (X53-4130-10)

	Ī I	New					Desti-			New				OL UNIT (X5	Desti-
Ref. No.	Address	parts	Parts No.		Descriptio	n	nation	Ref. No.	Address	parts			Descriptio	n	nation
C97			CK73GB1H104K	CHIP C	0.10UF	K		C208			CK73FB0J106K	CHIP C	10UF	K	
C98			CK73FB0J106K	CHIP C	10UF	K		C209			CK73GB1H103K	CHIP C	0.010UF	K	
C99			CK73GB1H102K	CHIP C	1000PF	K		C212			CC73GCH1H120J	CHIP C	12PF	J	
C102			CC73GCH1H150J	CHIP C	15PF	J		C213			CK73GB1H103K	CHIP C	0.010UF	K	
C103			CC73GCH1H101J	CHIP C	100PF	Ĵ		C215			CK73GB1H104K	CHIP C	0.10UF	K	
														_	
C104-106		*	CD04BD1H221M	ELECTRO	220UF	50WV		C216			CC73GCH1H100D	CHIP C	10PF	D	
C107			CK73GB1H102K	CHIP C	1000PF	K		C219			CC73GCH1H100D	CHIP C	10PF	D	
C108			CK73GB1H104K	CHIP C	0.10UF	K		C222			CC73GCH1H150J	CHIP C	15PF	J	
C109			CK73GB1H102K	CHIP C	1000PF	K		C223			CK73GB1H103K	CHIP C	0.010UF	K	
C110		*	C93-0912-05	CHIP C	100UF	M		C224			CK73GB1E105K	CHIP C	1.0UF	K	
0111			CV70CD411404V	CLUD C	0.10115	V		0005			CV70CD411404V	CLUID C	0.10115	I/	
C111			CK73GB1H104K	CHIP C	0.10UF	K		C225			CK73GB1H104K	CHIP C	0.10UF	K	
C119			CC73GCH1H181J	CHIP C	180PF	J		C226			CK73FB0J106K	CHIP C	10UF	K	
C120			CK73GB1H102K	CHIP C	1000PF	K		C227			CK73GB1H102K	CHIP C	1000PF	K	
C121			CK73FB0J106K	CHIP C	10UF	K		C229			CC73GCH1H101J	CHIP C	100PF	J	
C122			CC73GCH1H101J	CHIP C	100PF	J		C230			CK73GB1E105K	CHIP C	1.0UF	K	
C123			CK73GB1H472K	CHIP C	4700PF	K		C234,235			CK73GB1H104K	CHIP C	0.10UF	K	
C125			CK73GB1H472K	CHIP C	4700FF	K		C234,233		*	C90-4120-05	ELECTRO	470UF	35WV	
							l			1					
C127			CK73GB1H182K	CHIP C	1800PF	K	l	C237		1	CK73GB1H104K	CHIP C	0.10UF	K	
C128			CC73GCH1H101J	CHIP C	100PF	J	l	C239		1	C92-0777-05	ELECTRO	1000UF	25WV	
C130		*	CD04BD1H221M	ELECTRO	220UF	50WV		C244			CK73GB1H104K	CHIP C	0.10UF	K	
C131		*	CE32AU1C330M	CHIP EL	33UF	16WV		C245			CK73FB0J106K	CHIP C	10UF	K	
C133		*	CD04BD1H221M	ELECTRO	220UF	50WV	l	C246,247			CK73GB1H102K	CHIP C	1000PF	K	
		~					l								
C134			CK73GB1H104K	CHIP C	0.10UF	K	l	C248,249		1	CK73GB1H104K	CHIP C	0.10UF	K	
C137,138			CK73GB1H102K	CHIP C	1000PF	K		C250			CK73FB0J106K	CHIP C	10UF	K	
C139,140		*	CE32AU1C330M	CHIP EL	33UF	16WV		C251			CK73GB1H102K	CHIP C	1000PF	K	
C141			CK73GB1H102K	CHIP C	1000PF	K		C252			CK73FB0J106K	CHIP C	10UF	K	
C144		*	CE32AU1C330M	CHIP EL	33UF	16WV		C253-255			CK73GB1H103K	CHIP C	0.010UF	K	
C145		-•-	CK73GB1H182K	CHIP C	1800PF	K		C256			CK73GB1H104K	CHIP C	0.10UF	K	
C146			CK73GB1H104K	CHIP C	0.10UF	K		C257			CK73FB0J106K	CHIP C	10UF	K	
C152			CK73GB1H102K	CHIP C	1000PF	K		C258			CK73GB1H103K	CHIP C	0.010UF	K	
C155			CC73GCH1H181J	CHIP C	180PF	J		C262			CK73FB0J106K	CHIP C	10UF	K	
C157		*	CE32AU1C330M	CHIP EL	33UF	16WV		C263			CK73GB1H102K	CHIP C	1000PF	K	
C159			CK73GB1H102K	CHIP C	1000PF	K		C265			CK73GB1H104K	CHIP C	0.10UF	K	
C161			CK73GB1H102K	CHIP C	1000PF	K		C266-270			CK73GB1H103K	CHIP C	0.010UF	K	
C162		*	CE32AU1C330M	CHIP EL	33UF	16WV		C271			CK73FB0J106K	CHIP C	10UF	K	
C165			CK73GB1H102K	CHIP C	1000PF	K		C272,273			CK73GB1H103K	CHIP C	0.010UF	K	
C166		*	CE32AU1C330M	CHIP EL	33UF	16WV		C274			CK73GB1H472K	CHIP C	4700PF	K	
C169			CK73FB0J106K	CHIP C	10UF	K		C275			CC73GCH1H120J	CHIP C	12PF	J	
C170			CK73GB1H102K	CHIP C	1000PF	K		C276			CC73GCH1H100D	CHIP C	10PF	D	
C172			CK73FB0J106K	CHIP C	10UF	K		C277			CK73GB1H103K	CHIP C	0.010UF	K	
5172			GK731 B03 100K	GIIII G	1001	K		6277			GR/3dB111103R	GIIII G	0.01001	K	
C173			CC73GCH1H101J	CHIP C	100PF	J		C278			CK73FB0J106K	CHIP C	10UF	K	
C174			CK73GB1H102K	CHIP C	1000PF	K	l	C279		1	CK73GB1H103K	CHIP C	0.010UF	K	
C175			CC73GCH1H391J	CHIP C	390PF	J	l	C280			CC73GCH1H100D	CHIP C	10PF	D	
C177			CC73GCH1H101J	CHIP C	100PF	J	l	C281			CC73GCH1H150J	CHIP C	15PF	J	
C178			CK73FB0J106K	CHIP C	10UF	K		C282			CK73GB1H103K	CHIP C	0.010UF		
C188,189			CK73GB1H104K	CHIP C	0.10UF	K		C283			CK73GB1H104K	CHIP C	0.10UF	K	
							l								
C190			CK73GB1E105K	CHIP C	1.0UF	K	l	C284-288			CK73GB1H103K	CHIP C	0.010UF	K	
C192,193			CK73GB1E105K	CHIP C	1.0UF	K	l	C289			CK73GB1H102K	CHIP C	1000PF	K	
C194			CC73GCH1H560J	CHIP C	56PF	J	l	C290-297		1	CK73GB1H103K	CHIP C	0.010UF	K	
C195			CC73GCH1H181J	CHIP C	180PF	J		C299,300			CK73GB1H103K	CHIP C	0.010UF	K	
C196			CC73GCH1H101J	CHIP C	100PF	J		C302			CK73GB1H103K	CHIP C	0.010UF	K	
C197			CC73GCH1H330J	CHIP C	33PF	J	l	C304			CC73GCH1H101J	CHIP C	100PF	J	
C199		*	C93-0912-05	CHIP C	100UF	-	l	C305,306		1	CK73GB1H102K	CHIP C	1000PF	K	
		が				M	l			1		-			
C200 C202			CK73FB0J106K CK73GB1E105K	CHIP C CHIP C	10UF 1.0UF	K K		C307-310 C311,312			CC73GCH1H101J CK73GB1H102K	CHIP C	100PF 1000PF	J K	
J_U_			SK100DIE10JK	OTHI O	1.001	IX.		0011,012			OK700BIIIIUZK	OT III O	100011	IX.	
C203			CC73GCH1H101J	CHIP C	100PF	J		C313			CC73GCH1H101J	CHIP C	100PF	J	
C204			CC73GCH1H121J	CHIP C	120PF	J	l	C314			CK73GB1H102K	CHIP C	1000PF	K	
C205			CK73GB1H182K	CHIP C	1800PF	K	l	C315			CC73GCH1H101J	CHIP C	100PF	J	
C206		*	C93-0912-05	CHIP C	100UF	M	l	C316			CK73GB1H102K	CHIP C	1000PF	K	
C207			CK73GB1H102K	CHIP C	1000PF	K	l	C317		1	CK73GB1H103K	CHIP C	0.010UF	K	
	1		-=												

CONTROL UNIT (X53-4130-10)

Care	_	JIWII (7100	-4130-10)								T				
C226	d	Address		Parts No.		Descriptio	n	Desti- nation	Ref. No.	Address	New parts	Parts No.		Description	1	Desti- nation
CO22				CC73GCH1H101J	CHIP C	100PF	J		C416			CK73GB1H103K	CHIP C	0.010UF	K	
C222				CK73GB1H102K	CHIP C	1000PF	К		C417			CK73GB1F105K	CHIP C	1.0UF	K	1
C222														1000PF	K	1
C222 C222 C223 C22588HH0ZK														100PF	J	1
C224																1
C225 C226-C17-C17-C17-C17-C17-C17-C17-C17-C17-C17				CK/3GB1H1UZK	CHIP C	TUUUPF	K		U422-424			CK/3GB1H1UZK	CHIPC	1000PF	K	
C2362				CK73GB1H103K		0.010UF	K		C425,426			CC73GCH1H101J		100PF	J	
C229 C2736B1H103K				CC73GCH1H101J	CHIP C	100PF	J		C427-435			CK73GB1H102K	CHIP C	1000PF	K	1
C252 C2736B1H102K				CK73GB1H102K	CHIP C	1000PF	K		C436			CK73GB1E105K	CHIP C	1.0UF	K	1
C252 C2736B1H102K				CK73GB1H103K	CHIP C	0.010UF	K		C437.438			CC73GCH1H101J	CHIP C	100PF	J	1
C322														1000PF	K	
C323-33 C324 C3263H1102K				OK OGB III IOZK	orm o	100011	K		0110			OK/OGB111102K	orm o	100011	K	
CAMP				CK73GB1H103K	CHIP C	0.010UF	K		C442			CC73GCH1H101J	CHIP C	100PF	J	
C342,343 C3736B1H102K				CK73GB1H102K	CHIP C	1000PF	K		C444			CK73GB1H102K	CHIP C	1000PF	K	1
C23443				CK73GB1H103K	CHIP C	0.010UF	K		C445			CK73GB1H104K	CHIP C	0.10UF	K	1
C344 C4736B1H103K														390PF	J	1
C346														100PF	J	
CX736B1H102K																
CASS														1000PF	K	
CS50 CX736B1H102X CHIP C 1000PF K C456,457 C463 CX736B1H102K CHIP C 101 K C463 CX736B1H102K CHIP C 0.01 K C463 CX736B1H102K CHIP C 0.01 CHIP C 0.01 CX736B1H102K CHIP C 0.01 C4736B1H102K CHIP C 10 C4736B1H102K CHIP C 10 C4736B1H102K CHIP C 10 C4736B1H102K CHIP C 10 C47347 CX736B1H102K CHIP C 10 C55 CX736B1H102K CHIP C 10 C0 C473475 CX736B1H102K CHIP C 10 C473475 CX736B1H102K CHIP C 10 C473475 CX736B1H102K CHIP C 10 C47377 CX736B1H102K CHIP C 10 C0 CX736B1H102K CHIP C 10 C0 CX736B1H102K CHIP C 10 C59 CX736B1H102K CHIP C 10 C59 CX736B1H102K CHIP C 10 C0 C0 CX736B1H102K CHIP C 10 C0 C0									1					100PF	J	
C351								 	1					1000PF	K	
C852,353				CK73GB1H102K	CHIP C	1000PF	K	I	C456,457			CK73GB1H102K	CHIP C	1000PF	K	
C355				CK73GB1H103K	CHIP C				C463			CK73GB1H104K	CHIP C	0.10UF	K	
C355				CV72CB1U102V	CHIB C	1000DE	V		C467 460			CV72CD1U102V	CHIB C	1000PF	K	
C356																
C356														100PF	J	1
C357							-							1000PF	K	1
C358				CK73GB1H102K	CHIP C	1000PF			C473-475			CK73GB1H102K	CHIP C	1000PF	K	1
C359				CK73GB1H103K	CHIP C	0.010UF	K		C477			CK73GB1E105K	CHIP C	1.0UF	K	
C359				CK73GB1H102K	CHIP C	1000PF	K		C499		*	C92-0905-05	OS-CON	47UF	35WV	
C360 CK736B1H102K CHIP C 1000PF K C361 CK736B1H103K CHIP C 0.010UF K C362 CK736B1H102K CHIP C 0.010UF K C362 CK736B1H102K CHIP C 1000PF K C363 CK736B1H102K CHIP C 1000PF K C364 CK736B1H102K CHIP C 1000PF K C365 CK736B1H102K CHIP C 1000PF K CN56.57 E40-6656-05 PIN ASSY E40-6102-05 PIN A									1					0.10UF	K	1
C361 C362 CK73GB1H103K CHIP C 0.010UF K CK73GB1H102K CHIP C 1000PF K CN1-3 E40-6656-05 PIN ASSY C363 CC73GCH1H101J CHIP C 1000PF K CN56,57 E40-6656-05 PIN ASSY C364 CK73GB1H102K CHIP C 1000PF K CN58 E40-5960-05 PIN ASSY C365 CK73GB1H102K CHIP C 1000PF K CN59 E40-6102-05 PIN ASSY							-									1
C362 CK73GB1H102K									C510			CK/3FBUJTU6K	CHIP C	10UF	K	1
C363																1
C363 C364 C73GCH1H101J CHIP C 100PF J CN56,57 CN58 E40-666-05 PIN ASSY PIN ASSY C366-365 CK73GB1H102K CHIP C 1000PF K CN59 E40-6102-05 PIN ASSY PIN ASSY C366-368 CK73GB1H102K CHIP C 1000PF K CK73GB1H102K CHIP C 0.010UF K CK73GB1H102K CHIP C 0.010UF K CN60 E41-2735-05 PIN ASSY PIN				CK73GB1H102K	CHIP C	1000PF	K		CN1-3			E40-6656-05	PIN ASSY			1
C364 C365 CK73GB1H102K CHIP C 0.010UF K CX36G1H103K CHIP C 0.010UF K CX373									CN4			E41-2673-05	PIN ASSY			1
C364 CK73GB1H102K				CC73GCH1H101J	CHIP C	100PF	J		CN56,57			E40-6656-05	PIN ASSY			1
C365 C366 368 CK73GB1H103K CHIP C D.010UF K CK73GB1H102K CHIP C D.010UF K CK73GB1H103K CHIP C D.010UF K CK73GB1H102K CHIP C D.010UF K CK73GB1H102K CHIP C D.010UF K CK73GB1H102K CHIP C D.010UF K CK73GB1H103K CHIP C D.010UF K CK73GB1H102K CHIP C D.010UF K CK73GB1H102K CHIP C D.000FF CK73GB1H102K				CK73GB1H102K	CHIP C	1000PF	К		CN58			F40-5960-05	PIN ASSY			1
C366-368 CK73GB1H102K CHIP C 1000PF K CN60 E41-2735-05 PIN ASSY C370-372 CK73GB1H103K CHIP C 1000PF K F1,2 F53-0315-05 FUSE C373 CC73GCH1H101J CHIP C 1000PF J L3-14 * L92-0447-05 BEADS CORE C375,376 CK73GB1H102K CHIP C 1000PF K L15 * L33-1476-05 SMALL FIXED INT C377 CC73GCH1H101J CHIP C 1000PF K L16 * L33-1475-05 SMALL FIXED INT C379,380 CK73GB1H102K CHIP C 1000PF K L19 * L33-1475-05 SMALL FIXED INT C381 CC73GCH1H101J CHIP C 100PF J L19 * L33-1475-05 SMALL FIXED INT C382 CK73GB1H102K CHIP C 100PF K L20-22 * L92-0447-05 BEADS CORE C383,384 CK73GB1H102K CHIP C 100PF J L43 * L92-0447-05 BEADS CORE C386,387																1
C369									01400			210 0102 00	111171001			1
C370-372 CK73GB1H102K CHIP C 1000PF K F1,2 F53-0315-05 FUSE C373 CK73GB1H103K CHIP C 100PF J L3-14 * L92-0447-05 BEADS CORE C375,376 CK73GB1H102K CHIP C 1000PF K L15 * L33-1476-05 SMALL FIXED INI C377 CC73GCH1H101J CHIP C 100PF J L16 * L33-1475-05 SMALL FIXED INI C379,380 CK73GB1H102K CHIP C 1000PF K L19 * L33-1475-05 SMALL FIXED INI C381 CC73GCH1H101J CHIP C 100PF J L19 * L33-1475-05 SMALL FIXED INI C382 CK73GB1H102K CHIP C 100PF J L20-22 * L92-0447-05 BEADS CORE C385 CC73GCH1H101J CHIP C 100PF K L32-40 * L92-0447-05 BEADS CORE C386,387 CK73GB1H102K CHIP C 100PF J X1 * L77-1984-05 CRYSTAL RESONA C388 C									CNICO			E41 272E 0E	DINI ACCV			1
C373				CK/3GBIHIU3K	CHIP C	0.0100F	K		CINOU			E41-2/30-00	PIN ASST			
C374 C375,376 CK73GB1H103K CHIP C 0.010UF K L15 K L33-1476-05 SMALL FIXED ING C375,376 CC73GCH1H101J CHIP C 100PF J L16 K L33-1475-05 SMALL FIXED ING C379,380 CK73GB1H102K CHIP C 100PF J L19 K L33-1475-05 SMALL FIXED ING C381 CC73GCH1H101J CHIP C 100PF J CK73GB1H102K CHIP C 100PF J CK73GB1H102K CHIP C 100PF K L32-40 K L92-0447-05 BEADS CORE C383,384 CK73GB1H102K CHIP C 100PF J L32-40 K L92-0447-05 BEADS CORE C385,387 CK73GB1H102K CHIP C 100PF J L43 K L92-0447-05 BEADS CORE C386,387 CK73GB1H102K CHIP C 100PF J L43 K L92-0447-05 BEADS CORE C389,390 CK73GB1H102K CHIP C 100PF J CK73GB1H102K CHIP C 100PF K C394 C92-0905-05 OS-CON 47UF 35WV C396-399 CK73GB1H102K CHIP C 100PF K CP8 RK75GB1JR00 CHIP-COM 0.00 C396-399 CK73GB1H102K CHIP C 100PF K CP10 RK75GB1JR00 CHIP-COM 0.00 CK75GB1JR00 CHIP-COM 0.00 CHIP-COM 0.00 CK75GB1JR00 CHIP-COM 0.00 CK75GB1JR00 CHIP-COM 0.00 CHIP-COM 0.00 CK75GB1JR00 CHIP-COM 0.00				CK73GB1H102K	CHIP C	1000PF	K		F1,2			F53-0315-05	FUSE			
C375,376 C375,376 C736CH1H101J CHIP C 1000PF K L16 K L33-1476-05 SMALL FIXED INE C379,380 CK736B1H102K CHIP C 1000PF K L17,18 K L32-0447-05 BEADS CORE C379,380 CC736CH1H101J CHIP C 1000PF K L19 K L33-1475-05 SMALL FIXED INE C382 CK736B1H102K CHIP C 1000PF K L20-22 K L32-0447-05 BEADS CORE C383,384 CK736B1H102K CHIP C 1000PF K L32-40 K L3				CC73GCH1H101J	CHIP C	100PF	J									1
C377 C377 C736CH1H101J CHIP C 100PF J L16 L17,18 L32-0447-05 BEADS CORE				CK73GB1H103K	CHIP C	0.010UF	K		L3-14		*	L92-0447-05	BEADS COR	RE		1
C377 C377 C736CH1H101J CHIP C 100PF J L16 L17,18 L32-0447-05 BEADS CORE				CK73GB1H102K	CHIP C	1000PF	K		L15		*	L33-1476-05	SMALL FIXE	ED INDUCTOR		1
C379,380 CK73GB1H102K CHIP C 1000PF K L19 K L33-1475-05 SMALL FIXED INIT C381 CK73GB1H103K CHIP C 1000PF K L32-0447-05 BEADS CORE C383,384 CK73GB1H102K CHIP C 1000PF K L32-40 K L92-0447-05 BEADS CORE C383,384 CK73GB1H102K CHIP C 1000PF K L43 K L92-0447-05 BEADS CORE C386,387 CK73GB1H102K CHIP C 1000PF K L43 K L92-0447-05 BEADS CORE L44-49 L77-1984-05 CRYSTAL RESON. C389,390 CK73GB1H101X CHIP C 1000PF K X2 K L77-1984-05 CRYSTAL RESON. C389,390 CK73GB1H102K CHIP C 1000PF K X2 K L77-1987-05 CRYSTAL RESON. C394 K C32-0905-05 OS-CON 47UF 35WV C395 CK73GB1H103K CHIP C 0.010UF K CP8 RK75GB1JR00 CHIP-COM 0.00 RK75GB1JR00 CHIP-COM 0.00 CHIP-COM 0.00 CK1P-COM 0.00 CK1P-CO									1				1			1
C379,380 CK73GB1H102K CHIP C 1000PF K CC73GCH1H101J CHIP C 100PF J CX381 CK73GB1H103K CHIP C 1000PF K CX383,384 CK73GB1H102K CHIP C 1000PF K CX385 CK73GB1H102K CHIP C 1000PF K CX386,387 CX386,38				00700011111010	0	10011	ŭ		1							1
C381 CC73GCH1H101J CHIP C 100PF J L20-22 L20-22 L20-22 L20-22 L20-22 L20-247-05 BEADS CORE L32-40 L43 L20-247-05 BEADS CORE L32-40 L44-49 L20-247-05 BEADS CORE L20-247-05 L20-247-05 BEADS CORE L20-247-05 L20-247-05 BEADS CORE L20-247-05 BEADS CORE L20-247-05 L20-247-05 BEADS CORE L20-247-05 L20-247-05 BEADS CORE L20-247-05 L20-247				CK73GB1H102K	CHIP C	1000PF	K									
C382 CK73GB1H103K CHIP C 0.010UF K L20-22 L32-40 L32-40 L92-0447-05 BEADS CORE L32-40 L32												250 1170 00	JIVII ILL I IAL	25 114000101		
C383,384 C385 C385 C473GB1H102K CHIP C 1000PF K C73GCH1H101J CHIP C 1000PF K C73GCH1H103K CHIP C 1000PF							-	I	120-22		*	192-04/17-05	BEADS COD	RE		
C386,387 CK73GB1H102K CHIP C 100PF K L43 L44-49 L92-0447-05 BEADS CORE L92-0467-05 CHIP FERRITE C386,387 CK73GB1H102K CHIP C 100PF K L77-1984-05 CRYSTAL RESONA C389,390 K C32-0905-05 CS-CON 47UF 35WV C395 CK73GB1H103K CHIP C 0.010UF K C710 RK75GB1JR00 CHIP-COM 0.00 C396-399 CK73GB1H102K CHIP C 1000PF K CP13 RK75GB1JR00 CHIP-COM 0.00 CHIP-CO								I	1							
C386,387 C388 C389,390 C394 C395 CK73GB1H102K CHIP C 1000PF K CC73GCH1H101J CHIP C 1000PF K CS39,390 CS39,390 CS39,390 CS394 CS395 CK73GB1H103K CHIP C 0.010UF K CS36,399 CK73GB1H103K CHIP C 0.010UF K CK73GB1H103K CHIP C 0.010UF K CK73GB1H102K CHIP C 0.010UF K CK73GB1H102K CHIP C 0.010UF CK73GB1H102K CHIP C 0.010UF CK73GB1H102K CHIP C 0.010UF CK73GB1H102K CHIP C 0.010UF CK73GB1H102K CK73GB1H102K CK73GB1H102K CK73GB1H102K CK1PC CK73GB1H102K CHIP C 0.010UF CK73GB1H102K CK1PC CK73GB1H102K CHIP C 0.010UF CK73GB1H102K CK73GB1H102K CK1PC CK73GB1H102K CHIP C 0.010UF CK73GB1H102K CHIP C 0.010UF CK73GB1H102K CK1PC CK1PC CK73GB1H102K CK1PC CK73GB1H102K CK1PC CK73GB1H102K CK1PC CK1PC CK73GB1H102K CK1PC CK1PC CK1PC CK73GB1H102K CK1PC CK1								I								
C386,387 C386,387 CK73GB1H102K CHIP C 1000PF K X1 X1 X1 K L77-1984-05 CRYSTAL RESONATION CRYSTAL RESON				CC/3GCHTHTUTJ	CHIP C	IUUPF	J				*					
C388 C389,390 CK73GB1H102K CHIP C 100PF J X2 X2 X2 X2 X2 X2 X2				01/7000041140511	OLUD C	400000			1						4 7 4504 4: :=:	
C389,390 C394 S									X1		*	L//-1984-05	CHYSTAL RI	ESUNATOR (1	4./456MHZ)	
C394							-									
C394				CK73GB1H102K	CHIP C	1000PF	K		X2		*	L77-1987-05	CRYSTAL RE	SONATOR (16	6.515072MHZ)	
C395 CK73GB1H103K CHIP C 0.010UF K CHIP C 0.010UF K RK75GB1JR00 CHIP-COM 0.00 C396-399 CK73GB1H102K CHIP C 1000PF K RK75GB1JR00 CHIP-COM 0.00			*	C92-0905-05	OS-CON	47UF	35WV	 								
C396-399 CK73GB1H102K												RK75GB1JR00			1/16W	
															1/16W	
10400 404 1 A 10500 414 000044 0140 F1															1/16W	
C400,401 * CE32AU1C330M CHIP EL 33UF 16WV CP19 RK75GB1JR00 CHIP-COM 0.00			*	CE32AU1C330M	CHIP EL	33UF	16WV		CP19			RK75GB1JR00	CHIP-COM	0.00	1/16W	
C403 CK73GB1E105K CHIP C 1.0UF K CP24-26 RK75GB1JR00 CHIP-COM 0.00				CK73GB1E105K	CHIP C	1.0UF	K	 	CP24-26			RK75GB1JR00	CHIP-COM	0.00	1/16W	
C404 CK73FB0J106K																
C405,406 CC73GCH1H101J CHIP C 100PF J R1,2 RK73GB2A000J CHIP R 0.0									R1,2			RK73GB2A000J	CHIP R	0.0 J	1/10W	
R4 RK73GB2A000J CHIP R 0.0									R4			RK73GB2A000J	CHIP R	0.0 J	1/10W	
C407 CK73GB1H102K CHIP C 1000PF K R6 RK73GB2A101J CHIP R 100				CK73GB1H102K	CHIP C	1000PF	K		R6			RK73GB2A101J	CHIP R	100 J	1/10W	
C408-410 CK73GB1E105K CHIP C 1.0UF K R7-17 RK73GB2A000J CHIP R 0.0								 							1/10W	
C413 CK73GB1H104K															1/10W	
C414 CK73GB1H103K CHIP C 0.010UF K													J 11	.00 0	1/1044	
C415 CK73GB1H104K									R21_//5			BK73GB2A000 I	CHIP B	0.0 J	1/10W	
GRISGORITHOPIN GITTE G. 1001 N 121-43 1873-3052AU003 GHIF N U.U			L	UN/300111104N	OTHI C	U. 1UUF	IX		112 1-40		L	TIIK/ SUDZAUUUJ	JOINI N	U.U J	1/1044	

		Nam		T				Dane!			Na					L UNIT (X	1
Ref. No.	Address	New parts	Parts No.		Descr	iptior	1	Desti- nation	Ref. No.	Address	New parts	Parts No.		Descr	iption	ı	Desti- nation
R47-49			RK73GB2A000J	CHIP R	0.0	J	1/10W		R160,161			RK73GB2A563J	CHIP R	56K	J	1/10W	
R51-61			RK73GB2A000J	CHIP R	0.0	J	1/10W		R162			RK73GB2A224J	CHIP R	220K	J	1/10W	
R62			RK73GB2A101J	CHIP R	100	J	1/10W		R163			RK73GB2A000J	CHIP R	0.0	J	1/10W	
163,64			RK73GB2A332J	CHIP R	3.3K	J	1/10W		R165			RK73GB2A104J	CHIP R	100K	J	1/10W	
R65			RK73GB2A183J	CHIP R	18K	Ĵ	1/10W		R166			RK73GB2A333J	CHIP R	33K	Ĵ	1/10W	
																·	
R66			RK73GB2A823J	CHIP R	82K	J	1/10W		R167			RK73GB2A473J	CHIP R	47K	J	1/10W	
167			RK73GH2A822D	CHIP R	8.2K	D	1/10W		R168			RK73GB2A563J	CHIP R	56K	J	1/10W	
168			RK73GH2A332D	CHIP R	3.3K	D	1/10W		R169			RK73GB2A333J	CHIP R	33K	J	1/10W	
169,70			RK73GB2A000J	CHIP R	0.0	J	1/10W		R171			RK73GB2A183J	CHIP R	18K	J	1/10W	
171			RK73GH2A473D	CHIP R	47K	D	1/10W		R172,173			RK73GB2A473J	CHIP R	47K	J	1/10W	
17 1			TIIC/OGI12A4/OD	01111111	7710	D	1/1000		11172,173			TIIN SUBZATIO	01111111	7710	U	1/10**	
72-76			RK73GB2A000J	CHIP R	0.0	J	1/10W		R174			RK73GB2A683J	CHIP R	68K	J	1/10W	
77			RK73GH2A104D	CHIP R	100K	D	1/10W		R175			RK73GB2A393J	CHIP R	39K	J	1/10W	
R78			RK73GB2A104J	CHIP R	100K	J	1/10W		R176			RK73GB2A473J	CHIP R	47K	J	1/10W	
179			RK73GH2A332D	CHIP R	3.3K	D	1/10W		R177,178			RK73GB2A000J	CHIP R	0.0	J	1/10W	
R80			RK73GB2A123J	CHIP R	12K	J	1/10W		R179			RK73GB2A473J	CHIP R	47K	J	1/10W	
381,82			RK73GB2A563J	CHIP R	56K	J	1/10W		R181,182			RK73GB2A103J	CHIP R	10K	J	1/10W	
183			RK73GB2A124J	CHIP R	120K	J	1/10W		R183			RK73GB2A000J	CHIP R	0.0	J	1/10W	
R84			RK73GB2A473J	CHIP R	47K	J	1/10W		R184			RK73GB2A473J	CHIP R	47K	J	1/10W	
85			RK73GB2A000J	CHIP R	0.0	J	1/10W		R188			RK73GB2A000J	CHIP R	0.0	J	1/10W	
R86			RK73GB2A473J	CHIP R	47K	J	1/10W		R191			RK73GB2A000J	CHIP R	0.0	Ĵ	1/10W	
									 								
R87			RK73GB2A223J	CHIP R	22K	J	1/10W		R193			RK73GB2A103J	CHIP R	10K	J	1/10W	
188			RK73GB2A000J	CHIP R	0.0	J	1/10W		R194			RK73GB2A473J	CHIP R	47K	J	1/10W	
189			RK73GB2A103J	CHIP R	10K	J	1/10W		R195,196			RK73GB2A000J	CHIP R	0.0	J	1/10W	
R90			RK73GB2A153J	CHIP R	15K	J	1/10W		R197			RK73GB2A103J	CHIP R	10K	J	1/10W	
R91			RK73GB2A472J	CHIP R	4.7K	J	1/10W		R198			RK73GB2A473J	CHIP R	47K	J	1/10W	
192			DV72CD2AEG2 I	CHIP R	E CV		1 /10\\/		D100			DV72CD2A102I	CUID D	101/		1/10\\/	
			RK73GB2A562J		5.6K	J	1/10W		R199			RK73GB2A103J	CHIP R	10K	J	1/10W	
193,94			RK73GB2A000J	CHIP R	0.0	J	1/10W		R200,201			RK73GB2A000J	CHIP R	0.0	J	1/10W	
195			RK73GB2A470J	CHIP R	47	J	1/10W		R202			RK73GB2A473J	CHIP R	47K	J	1/10W	
396			RK73GB2A223J	CHIP R	22K	J	1/10W		R203			RK73GB2A104J	CHIP R	100K	J	1/10W	
R98			RK73GB2A103J	CHIP R	10K	J	1/10W		R204			RK73GB2A473J	CHIP R	47K	J	1/10W	
R100			RK73GB2A473J	CHIP R	47K	J	1/10W		R205			RK73GB2A104J	CHIP R	100K	J	1/10W	
R101									R206				CHIP R				
			RK73GB2A000J	CHIP R	0.0	J	1/10W		1			RK73GB2A122J		1.2K	J	1/10W	
R102			RK73GB2A123J	CHIP R	12K	J	1/10W		R207,208			RK73GB2A473J	CHIP R	47K	J	1/10W	
R103-105			RK73GB2A473J	CHIP R	47K	J	1/10W		R210			RK73GB2A000J	CHIP R	0.0	J	1/10W	
R106-108			RK73GB2A000J	CHIP R	0.0	J	1/10W		R211,212			RK73GB2A473J	CHIP R	47K	J	1/10W	
R109			RK73GB2A153J	CHIP R	15K	J	1/10W		R215			RK73GB2A473J	CHIP R	47K	J	1/10W	
R111			RK73GB2A823J	CHIP R	82K	J	1/10W		R216,217			RK73GB2A000J	CHIP R	0.0	J	1/10W	
R112			RK73GB2A023J	CHIP R	12K	J	1/10W		R218,219			RK73GB2A0003	CHIP R	47K	J	1/10W	
3113					82K				1								
			RK73GB2A823J	CHIP R		J	1/10W		R220,221			RK73GB2A000J	CHIP R	0.0	J	1/10W	
R114			RK73GB2A223J	CHIP R	22K	J	1/10W		R222			RK73GB2A473J	CHIP R	47K	J	1/10W	
R115			RK73GB2A154J	CHIP R	150K	J	1/10W		R230.231			RK73GB2A473J	CHIP R	47K	J	1/10W	
R116			RK73GB2A223J	CHIP R	22K	J	1/10W		R232			RK73GB2A102J	CHIP R	1.0K	J	1/10W	
1170			RK73GB2A2233	CHIP R	47K	J	1/10W		R233			RK73GB2A1023	CHIP R	0.0	J	1/10W	
1127			RK73GB2A4733	CHIP R	0.0	J	1/10W		R234,235			RK73GB2A0003	CHIP R	47K	J	1/10W	
1128-130				CHIP R	u.u 47K	J			R234,235 R237					47K 47K	J		
131-133			RK73GB2A473J	CHIP N	4/K	J	1/10W		nz3/			RK73GB2A473J	CHIP R	4/K	J	1/10W	
135			RK73GB2A000J	CHIP R	0.0	J	1/10W		R240-243			RK73GB2A473J	CHIP R	47K	J	1/10W	
1137			RK73GB2A102J	CHIP R	1.0K	J	1/10W		R245,246			RK73GB2A472J	CHIP R	4.7K	Ĵ	1/10W	
1138			RK73GB2A473J	CHIP R	47K	J	1/10W		R247			RK73GB2A473J	CHIP R	47K	J	1/10W	
141-144			RK73GB2A000J	CHIP R	0.0	J	1/10W		R249,250			RK73GB2A000J	CHIP R	0.0	J	1/10W	
145			RK73GB2A0003	CHIP R	100K	J	1/10W		R251			RK73GB2A0003	CHIP R	47K	J	1/10W	
			DI/TOOP - 1 - 1	01:::= -								Buttones	0,				
146-148			RK73GB2A000J	CHIP R	0.0	J	1/10W		R254			RK73GB2A473J	CHIP R	47K	J	1/10W	
1149			RK73GB2A333J	CHIP R	33K	J	1/10W		R261,262			RK73GB2A473J	CHIP R	47K	J	1/10W	
1150			RK73GB2A563J	CHIP R	56K	J	1/10W		R267-271			RK73GB2A473J	CHIP R	47K	J	1/10W	
151			RK73GB2A124J	CHIP R	120K	J	1/10W		R273			RK73GB2A473J	CHIP R	47K	J	1/10W	
R152			RK73GB2A104J	CHIP R	100K	J	1/10W		R275			RK73GB2A473J	CHIP R	47K	J	1/10W	
R153			RK73GB2A000J	CHIP R	0.0	J	1/10W		R277			RK73GB2A473J	CHIP R	47K	J	1/10W	
1153			RK73GB2A0003	CHIP R	33K	J	1/10W		R279			RK73GB2A4733	CHIP R	10K	J	1/10W	
				1					1								
1156,157			RK73GH2A104D	CHIP R	100K	D	1/10W		R281			RK73GB2A103J	CHIP R	10K	J	1/10W	
1158			RK73GB2A333J RK73GB2A000J	CHIP R	33K	J	1/10W		R283 R286-288			RK73GB2A000J	CHIP R	0.0	J	1/10W 1/10W	
R159				CHIP R	0.0	J	1/10W					RK73GB2A000J	CHIP R	0.0	J		

PARTS LIST

CONTROL UNIT (X53-4130-10)

March Marc	CONTROL	UNIT	(X53	-4130-10)					 					
PROS-1922-001 Color Col	Ref. No.	Address		Parts No.		Descr	iption	ı	Ref. No.	Address	New parts	Parts No.	Description	Desti- nation
REPORT	R289			RK73GB2A473J	CHIP R	47K	J	1/10W	R540			RK73GB2A222J	CHIP R 2.2K J 1/10W	
REPORT									R541					
PROPERTY														
REMAINDOOR REMAINDOOR REMAINDOOR CHIPPE TOKA J. 17/10W DEC. S. 100 DEC. D													.,,	
BRID 100 BRID 100 10									D1.2		*	CMS05-0	DIODE	
ROLGES R. R. R. R. R. R. SERZA OHIP R 100	1.200,000			11107 00027 11000	01111		Ü	.,						
RIGH SIGN RIGHERAM RIGHERAM CHIPR DIV J 1/10W DIV DI	R301 302			RK73GR2Δ104.I	CHIP B	100K	.I	1/10\//						
Bill-1985 R. R. R. B. B. B. B. B.											*			
May											•			
RS42 RK758E2A102									b/ 11			DAZOTO	BIOBE	
R855 R736R2A471									D12			199355	DIODE	
RESS-SS-ST RYSGREARTJ	11042-331			TIK73GDZATOZO	GIIII II	1.01	J	1/1000			*			
RESS-16 RESSERATION PR	D2E2			DV72CD2A471 I	CHID B	470		1 /1 () () /			~			
RSSS RC/SBB2A172J														
R869														
R86 R67 R76 R67									D23			DA2040	DIODE	
BR61-377 R67/8-368-240001 OHP R									D24		*	CMD10EE 2	VARISTOR	
R861-377 RK736EZADOUJ CHIP R OLD J 1/10W D28 RK736EZADOUJ CHIP R OLD J 1/10W D28 RK736EZADOUJ CHIP R OLD J 1/10W D28 RK736EZADOUJ CHIP R OLD J 1/10W D30 RK736EZADOUJ CHIP R OLD J 1/10W D33 RK736EZADOUJ CHIP R OLD J 1/10W D38,37 D00 D0	N30U			nk/3GBZA1ZZJ	CHIP N	I.ZK	J	1/1000			不			
R7763P2 R736B2A12J OHIP R 12K J 1/10W D28 R736B2A00J OHIP R 0.0 J 1/10W D39 D39 S3535 D10DE D39	D004 077			DI/700D0 4 000 I	OLUD D	0.0		4 (4 0) 4 (
R888-396 R/G3GEZA000J CHIP R														
R889-96 R736B2A00U														
R398-409 R73GB2A000L									D29		*	UZUZ18F-X	ZENEK DIUDE	
R410									l					
R410	R398-409			RK73GB2A000J	CHIP R	0.0	J	1/10W						
R412 R173GB2A224L CHIP R	_										*			
R412														
R415	R411			RK73GB2A224J	CHIP R	220K	J	1/10W			*	02DZ18F-X	ZENER DIODE	
R415-418	R412			RK73GB2A103J	CHIP R	10K	J	1/10W	D36,37			DA204U	DIODE	
R15-418	R413			RK73GB2A104J	CHIP R	100K	J	1/10W	1					
R415-418 RK736B2A0001	R414			RK73GB2A000J	CHIP R	0.0	J	1/10W	D38,39			1SS388F	DIODE	
R419, A20									IC1			BU4094BCFV	MOS-IC	
R426	R415-418			RK73GB2A104J	CHIP R	100K	J	1/10W	IC2,3			BU4053BCFV	MOS-IC	
RA26	R419,420			RK73GB2A000J	CHIP R	0.0	J	1/10W	IC4			AK4550VTP	MOS-IC	
R429-430					FL-PROOF RS		J		IC5		*	NJM2732V		
RK336B2A470J	R428-430													
R433									IC6		*	XC6209B332PR	MOS-IC	
R433				11107 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	01		Ü	.,						
R434 RK73GB2A470J	B433			RK73GR2Δ473.I	CHIP B	47K	.I	1/10\//						
R435 RK73GB2A400J											*			
R436-446														
R48-454									1010,11		~	NJIVIZJ4011D1	1003-10	
R455									1012			N IM2722\/	PL POLAPIC	
R455 R473	n448-454			nk/3GBZAUUUJ	CHIP N	0.0	J	1/1000			*			
R457 R458,459 RK73GB2A473J CHIP R 47K J 1/10W IC16 * XC6209B502PR MOS-IC R458,459 RK73GB2A104J CHIP R 100K J 1/10W IC17 * Note 1 (BGA) ROM IC R469 RK73GB2A103J CHIP R 10K J 1/10W IC18 * XC6201P182MR MOS-IC R470 RK73GB2A103J CHIP R 10K J 1/10W IC20_21 * NJM2734V BI-PDLAR IC R470 RK73GB2A104J CHIP R 100K J 1/10W IC22 BU4094BCFV MOS-IC R471-473 RK73GB2A104J CHIP R 100K J 1/10W IC23 TC7SH00FU-F MOS-IC R475 RK73GB2A104J CHIP R 100K J 1/10W IC25 TC7SE6FUF MOS-IC R477 RK73GB2A100J CHIP R 10K J 1/10W IC28 * TC7SH12FU-F MOS-IC R479 <td< td=""><td>DAFF</td><td></td><td></td><td>DI/70CD0A40AI</td><td>CLUID D</td><td>1001/</td><td></td><td>1 /10\A/</td><td></td><td></td><td></td><td></td><td></td><td></td></td<>	DAFF			DI/70CD0A40AI	CLUID D	1001/		1 /10\A/						
RK73GB2A104J CHIP R														
RK73GB2A00J														
R467,468 RK73GB2A000J CHIP R 0.0 J 1/10W IC18 ★ XC6201P182MR MOS-IC R469 RK73GB2A103J CHIP R 10K J 1/10W IC20,21 ★ NJM2732V BI-POLAR IC R470 RK73GB2A104J CHIP R 0.0 J 1/10W IC22 ★ NJM2734V BI-POLAR IC R471-473 RK73GB2A104J CHIP R 100K J 1/10W IC22 TC7SGFUF MOS-IC R474 RK73GB2A104J CHIP R 100K J 1/10W IC25 TC7SG6FUF MOS-IC R477 RK73GB2A104J CHIP R 100K J 1/10W IC28 ★ TC7SH126FU-F MOS-IC R478 RK73GB2A103J CHIP R 10K J 1/10W IC38 ★ TC7SH126FU-F MOS-IC R491-9 RK73GB2A000J CHIP R 0.0 J 1/10W IC30 ★ TC7SH126FU-F MOS-IC R491-495 <td< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>1017</td><td></td><td>*</td><td>Note 1 (BGA)</td><td>ROMIC</td><td></td></td<>									1017		*	Note 1 (BGA)	ROMIC	
R469									1					
R459 R470	H467,468			KK/3GB2A000J	CHIP R	0.0	J	1/10W						
RK73GB2A000J CHIP R 0.0 J 1/10W IC22 IC23 TC7SH05FU-F MOS-IC														
RK73GB2A104J											*			
RK73GB2A000J CHIP R 0.0 J 1/10W IC25 IC27 TC7S66FUF MOS-IC														
R475									IC23			TC7SH00FU-F	MOS-IC	
RK73GB2A104J							J	1/10W						
R477 R478 RK73GB2A104J CHIP R 100K J 1/10W IC29 2C LA4425A M0S-IC LA4425A LA4425A M0S-IC LA4425A LA4425A M0S-IC LA4425A	R475			RK73GB2A104J	CHIP R	100K	J	1/10W						
R478											*		MOS-IC	
R479	R477			RK73GB2A104J		100K	J	1/10W	IC28		*	TC7SH126FU-F		
R479	R478			RK73GB2A103J	CHIP R	10K	J	1/10W	IC29	2C		LA4425A	MOS-IC	
R482 RK73GB2A000J CHIP R 0.0 J 1/10W IC31 * TC7MH4040FK-F MOS-IC R491-495 RK73GB2A000J CHIP R 0.0 J 1/10W IC34 * 3625MGP396GP MICROPROCESSOR IC R501 RK73GB2A000J CHIP R 0.0 J 1/10W IC34 * 3625MGP396GP MICROPROCESSOR IC R502 RK73GB2A183J CHIP R 18K J 1/10W IC36 TC7MET541AFK MOS-IC R507-510 RK73GB2A183J CHIP R 18K J 1/10W IC36 TC7MET541AFK MOS-IC R511-515 RK73GB2A123J CHIP R 12K J 1/10W IC37 320VC5402PGE MICROPROCESSOR IC R522,523 RK73GB2A000J CHIP R 0.0 J 1/10W IC39 * TC7SH125FU-F MOS-IC R524,525 RK73GB2A121J CHIP R 47K J 1/10W IC40 * TC7SH126FU-F MOS-IC R5	R479			RK73GB2A000J			J		IC30			TC7SH00FU-F		
R484 RK73GB2A000J CHIP R 0.0 J 1/10W IC31 * TC7MH4040FK-F MOS-IC R491-495 RK73GB2A000J CHIP R 0.0 J 1/10W IC34 * 3625MGP396GP MICROPROCESSOR IC R501 RK73GB2A000J CHIP R 0.0 J 1/10W IC35 S24CS02AFJTBG ROM IC R502 RK73GB2A183J CHIP R 18K J 1/10W IC36 TC7MET541AFK MOS-IC R507-510 RK73GB2A183J CHIP R 12K J 1/10W IC37 320VC5402PGE MICROPROCESSOR IC R511-515 RK73GB2A123J CHIP R 12K J 1/10W IC37 320VC5402PGE MICROPROCESSOR IC R522,523 RK73GB2A000J CHIP R 0.0 J 1/10W IC39 * TC7SH125FU-F MOS-IC R524,525 RK73GB2A121J CHIP R 47K J 1/10W IC40 * TC7SH126FU-F MOS-IC R526,527														
R491-495 RK73GB2A000J CHIP R 0.0 J 1/10W IC35 IC34 * TC7SH126FU-F MOS-IC MCROPROCESSOR IC S24CS02AFJTBG ROM IC TC7MET541AFK MOS-IC RK73GB2A183J CHIP R 18K J 1/10W IC35 IC36 TC7MET541AFK MOS-IC MCROPROCESSOR IC TC7MET541AFK MOS-IC MCROPROCESSOR IC TC7MET541AFK MOS-IC MCROPROCESSOR IC TC7MET541AFK MOS-IC MCROPROCESSOR IC TC7SET08FU-F MCROPROCESSOR IC TC7SET08FU-F MOS-IC MCROPROCESSOR IC TC7SET08FU-F MOS-IC MCROPROCESSOR IC TC7SET08FU-F MOS-IC MCROPROCESSOR IC TC7SET08FU-F MOS-IC MCROPROCESSOR IC MCROPROCESSOR IC TC7SET08FU-F MOS-IC MCROPROCESSOR IC									IC31		*	TC7MH4040FK-F	MOS-IC	
R491-495 RK73GB2A000J CHIP R 0.0 J 1/10W IC34 * 3625MGP396GP MICROPROCESSOR IC R501 RK73GB2A000J CHIP R 0.0 J 1/10W IC35 S24CS02AFJTBG ROM IC R502 RK73GB2A183J CHIP R 18K J 1/10W IC36 TC7MET541AFK MOS-IC R511-515 RK73GB2A123J CHIP R 12K J 1/10W IC37 320VC5402PGE MICROPROCESSOR IC R522,523 RK73GB2A000J CHIP R 0.0 J 1/10W IC39 * TC7SH125FU-F MOS-IC R524,525 RK73GB2A473J CHIP R 47K J 1/10W IC40 * TC7SH126FU-F MOS-IC R526,527 RK73GB2A121J CHIP R 120 J 1/10W IC40 * TC7SH08FU-F MOS-IC								•						
R501 RK73GB2A000J CHIP R 0.0 J 1/10W IC35 S24CS02AFJTBG ROM IC R502 RK73GB2A183J CHIP R 18K J 1/10W IC36 TC7MET541AFK MOS-IC R507-510 RK73GB2A183J CHIP R 18K J 1/10W IC37 320VC5402PGE MICROPROCESSOR IC R521-515 RK73GB2A123J CHIP R 12K J 1/10W IC37 320VC5402PGE MICROPROCESSOR IC R522,523 RK73GB2A000J CHIP R 0.0 J 1/10W IC39 * TC7SH125FU-F MOS-IC R524,525 RK73GB2A121J CHIP R 47K J 1/10W IC40 * TC7SH126FU-F MOS-IC R526,527 RK73GB2A121J CHIP R 120 J 1/10W IC41 TC7SH08FU-F MOS-IC	R491-495			RK73GB2A000.J	CHIP R	0.0	J	1/10W						
R502 RK73GB2A183J CHIP R 18K J 1/10W IC36 TC7MET541AFK MOS-IC R507-510 RK73GB2A183J CHIP R 18K J 1/10W IC36 320VC5402PGE MICROPROCESSOR IC R511-515 RK73GB2A123J CHIP R 12K J 1/10W IC37 320VC5402PGE MICROPROCESSOR IC R522,523 RK73GB2A000J CHIP R 0.0 J 1/10W IC39 * TC7SH125FU-F MOS-IC R524,525 RK73GB2A121J CHIP R 47K J 1/10W IC40 * TC7SH126FU-F MOS-IC R526,527 RK73GB2A121J CHIP R 120 J 1/10W IC41 TC7SH08FU-F MOS-IC											-			
RK73GB2A183J CHIP R 18K J 1/10W IC37 IC38 TC7SET08FU-F M0S-IC RK73GB2A123J CHIP R 12K J 1/10W IC37 IC38 TC7SET08FU-F M0S-IC R522,523 RK73GB2A000J CHIP R 0.0 J 1/10W IC39 * TC7SH125FU-F M0S-IC R524,525 RK73GB2A473J CHIP R 47K J 1/10W IC40 * TC7SH126FU-F M0S-IC R526,527 RK73GB2A121J CHIP R 120 J 1/10W IC41 IC41 TC7SH08FU-F M0S-IC R526,527 RK73GB2A121J CHIP R 120 J 1/10W IC41 IC41 TC7SH08FU-F M0S-IC R526,527 RK73GB2A121J CHIP R 120 J 1/10W IC41 IC41 TC7SH08FU-F M0S-IC R527 RK73GB2A121J CHIP R 120 J 1/10W IC41 IC41 TC7SH08FU-F M0S-IC R527 RK73GB2A121J CHIP R 120 J 1/10W IC41 IC41 TC7SH08FU-F M0S-IC R528 RK73GB2A121J CHIP R 120 J 1/10W IC41 IC41 TC7SH08FU-F M0S-IC R529 RK73GB2A121J CHIP R 120 J 1/10W IC41 IC41 TC7SH08FU-F M0S-IC R520 RK73GB2A121J CHIP R 120 J 1/10W IC41 IC41 TC7SH08FU-F M0S-IC R520 RK73GB2A121J CHIP R 120 J 1/10W IC41 IC41 TC7SH08FU-F M0S-IC R520 RK73GB2A121J CHIP R 120 J 1/10W IC41 IC41 TC7SH08FU-F M0S-IC R520 RK73GB2A121J CHIP R 120 J 1/10W IC41 IC41 TC7SH08FU-F M0S-IC R520 RK73GB2A121J CHIP R 120 J 1/10W IC41 IC41 TC7SH08FU-F M0S-IC TC7SH08FU-F TC7SH08FU-F M0S-IC TC7SH08FU-F M0S-IC TC7SH08FU-F M0S-IC TC7SH08FU-F M0S-IC TC7SH08FU-F TC7SH08FU-F M0S-IC TC7SH08FU-F TC7SH08FU-F TC7SH08FU-F TC7SH08FU-F TC7SH08FU-F TC7SH08FU-F TC7SH08FU-F TC7SH08FU-F TC7SH08FU-F T														
R511-515									1.555			. 57.11.210117/11/1		
RK73GB2A000J CHIP R 0.0 J 1/10W IC38 IC39 * TC7SET08FU-F MOS-IC									IC37			320V/C5402PGE	MICROPROCESSOR IC	
R522,523 RK73GB2A000J CHIP R 0.0 J 1/10W IC39 * TC7SH125FU-F M0S-IC R524,525 RK73GB2A473J CHIP R 47K J 1/10W IC40 * TC7SH126FU-F M0S-IC R526,527 RK73GB2A121J CHIP R 120 J 1/10W IC41 TC7SH08FU-F M0S-IC	110111-010			HIN JUDEN I ZOJ	OTHE IT	IZN	J	1/1000						
R524,525 RK73GB2A473J CHIP R 47K J 1/10W RK73GB2A121J CHIP R 120 J 1/10W RC3-1C R526,527 RK73GB2A121J CHIP R 120 J 1/10W	DE33 E33			DK120CD2V000 I	CHID D	0.0	1	1/10\\						
R526,527 RK73GB2A121J CHIP R 120 J 1/10W I IC41 TC7SH08FU-F MOS-IC														
											*			
									IC41			TC/SHU8FU-F	MU9-IC	
R528-535 RK73GB2A000J CHIP R 0.0 J 1/10W									1050			T0701100511.5	1400.10	
R536 RK73GB2A104J CHIP R 100K J 1/10W I IC50 TC7SH08FU-F MOS-IC	К536			KK/3GB2A104J	CHIP R	100K	J	1/10W	IC50			TC/SH08FU-F	MUS-IC	

CONTROL UNIT (X53-4130-10) CONTROL UNIT (X53-4140-10)

)L UNIT (X:)L UNIT (X:	
Ref. No.	Address	New parts	Parts No.	Description		esti- ation	Ref. No.	Address	New parts	Parts No.		Descriptio	n	Desti- nation
Q1			DTC114EUA	DIGITAL TRANSISTOR			C373,374			CK73HB1H102K	CHIP C	1000PF	K	
02,3			2SJ506-E(S)	FET			C376-378			CK73HB1H102K	CHIP C	1000PF	K	
Q4,5		*	2SC4738F	TRANSISTOR			C379			CK73HB1A104K	CHIP C	0.10UF	K	
Q6		•	DTC363EU	DIGITAL TRANSISTOR			C380.381			CK73HB1H102K	CHIP C	1000PF	K	
07,8			DTC114EUA	DIGITAL TRANSISTOR			C383-386			CK73HB1H102K	CHIP C	1000F	K	
Ω9			2SJ506-E(S)	FET			C387			CK73GB1H103K	CHIP C	0.010UF	K	
Q10		*	2SC4738F	TRANSISTOR			C388-390			CK73HB1H102K	CHIP C	1000PF	K	
Q11		•	2SD2114K(W)	TRANSISTOR			C391			CK73GB1E105K	CHIP C	1.0UF	K	
012		*	2SC4738F	TRANSISTOR			C393-395			CK73HB1H102K	CHIP C	1000PF	K	
Q13		•••	2SD2114K(W)	TRANSISTOR			C396			CK73GB1H103K	CHIP C	0.010UF	K	
Q14			2SC4116(Y)F	TRANSISTOR			C397,398			CK73HB1H102K	CHIP C	1000PF	K	
Q15		*	2SA1586(Y)F	TRANSISTOR			C399			CK73GB1H104K	CHIP C	0.10UF	K	
Q16			2SC4116(Y)F	TRANSISTOR			C401			CC73HCH1H101J	CHIP C	100PF	J	
Q17		*	2SA1586(Y)F	TRANSISTOR			C402			CK73HB1H102K	CHIP C	1000PF	K	
Q18			2SK1830F	FET			C403			CC73HCH1H101J	CHIP C	100PF	J	
Q19			HN1L02FU(F)	FET			C405,406			CK73HB1H102K	CHIP C	1000PF	K	
020			2SA1955A-F	TRANSISTOR			C409			CK73HB1H102K	CHIP C	1000PF	K	
Q21			DTC144EUA	DIGITAL TRANSISTOR			C410			CC73HCH1H101J	CHIP C	100PF	J	
Q22			2SA1955A-F	TRANSISTOR			C412-415			CK73HB1H102K	CHIP C	1000PF	K	
023			DTC144EUA	DIGITAL TRANSISTOR			C416			CC73HCH1H101J	CHIP C	100PF	J	
025,26			DTC144EUA	DIGITAL TRANSISTOR			C417,418		*	CE32AU1C330M	CHIP EL	33UF	16WV	
Q27-29			2SD2114K(W)	TRANSISTOR			C419			CC73HCH1H101J	CHIP C	100PF	J	
							C420			CK73HB1A104K	CHIP C	0.10UF	K	
							C421			CK73HB1H102K	CHIP C	1000PF	K	
							C422		*	CE32AU1C330M	CHIP EL	33UF	16WV	
		C	ONTROL UN	IT (X53-4140-1	0)		C423			CC73HCH1H101J	CHIP C	100PF	J	
C302			CC73HCH1H101J	CHIP C 100PF	J		C424			CK73HB1H102K	CHIP C	1000PF	K	
C303			CK73HB1H102K	CHIP C 1000PF	K		C426-430			CK73HB1H102K	CHIP C	1000PF	K	
C305			CK73HB1A104K	CHIP C 0.10UF	K		C432			CC73HCH1H101J	CHIP C	100PF	J	
C306			CK73HB1H102K		K		C433			CK73HB1H102K	CHIP C	1000PF	K	
C308,309			CK73HB1H102K		K		0405 407				OLUB O	400005	IZ.	
0044			01/70110444041/	01110 0 0 10115	.,		C435-437			CK73HB1H102K	CHIP C	1000PF	K	
C311			CK73HB1A104K		K		C438			CK73GB1H103K	CHIP C	0.010UF	K	
C312-317			CK73HB1H102K		K		C439		*	CE32AU1C330M	CHIP EL	33UF	16WV	
C320			CC73HCH1H101J		J		C440-442			CK73HB1H102K	CHIP C	1000PF	K	
C322,323			CK73HB1H102K		K		C443,444		*	CE32AU1C330M	CHIP EL	33UF	16WV	
C324			CC73HCH1H101J	CHIP C 100PF	J		C445			CK73HB1A104K	CHIP C	0.10UF	K	
C326-329			CK73HB1H102K	CHIP C 1000PF	К		C445			CK73FB1H102K	CHIP C	1000PF	K	
			CK73HB1H102K		K		C440 C447				CHIP C		K	
C331					K		I		.,,	CK73HB1A104K		0.10UF		
C333-335			CK73HB1H102K				C448		*	CE32AU1C330M	CHIP EL	33UF	16WV	
C337 C339			CK73HB1H102K CC73HCH1H101J		K J		C449,450			CK73HB1A104K	CHIP C	0.10UF	K	
							C453			CK73GB1H103K	CHIP C	0.010UF	K	
C341,342			CK73HB1H102K	CHIP C 1000PF	K		C461			CK73GB1H103K	CHIP C	0.010UF	K	
C343			CC73HCH1H101J		J		C462			CK73HB1E103K	CHIP C	0.010UF	K	
C344			CK73HB1H102K	CHIP C 1000PF	K		C463			CC73HCH1H100D	CHIP C	10PF	D	
C345			CC73HCH1H101J		J		C465			CK73GB1H103K	CHIP C	0.010UF	K	
C346-348			CK73HB1H102K	CHIP C 1000PF	K		C466			CK73GB1H104K	CHIP C	0.10UF	K	
C349			CC73HCH1H101J	CHIP C 100PF	J		C467			CK73GB1H103K	CHIP C	0.010UF	K	
C350			CK73HB1H102K	CHIP C 1000PF	K		C468			CK73GB1H104K	CHIP C	0.10UF	K	
C352			CK73HB1H102K	CHIP C 1000PF	K		C469			CC73GCH1H121J	CHIP C	120PF	J	
C353			CC73HCH1H101J	CHIP C 100PF	J		C471			CK73HB1H102K	CHIP C	1000PF	K	
C354			CK73HB1H102K	CHIP C 1000PF	K		C474			CV70HD1LI000V	CHIBC	200000	V	
C355			CK73HB1E103K	CHIP C 0.010UF	К		C474 C475			CK73HB1H392K CK73FB0J106K	CHIP C	3900PF 10UF	K K	
C356			CC73HCH1H101J		J		C475			CK73HB1A104K	CHIP C		K	
			CK73HB1H101J		K		I			CC73GCH1H121J	CHIP C	0.10UF		
C357,358 C359,360					K		C477 C478				CHIP C	120PF	J K	
C361			CK73HB1A104K CK73HB1H102K		K		04/0			CK73HB1H102K	OI IIF U	1000PF	IV.	
0000			0/70LID4E4001/				C479			CC73GCH1H121J	CHIP C	120PF	J	
C362			CK73HB1E103K		K		C480			CK73FB0J106K	CHIP C	10UF	K	
							1 (1/1 (1/2)	i .	1	CK73HB1A104K	LUDIDL	0.10UF	1/	1
C364-366			CK73HB1H102K		K		C482						K	
			CK73HB1H102K CK73HB1H102K CK73HB1A104K	CHIP C 1000PF	K K		C484 C485			CS77BA1C010M CK73GB1H103K	CHIP TNTL	1UF 0.010UF	16WV	

CONTROL UNIT (X53-4140-10)

	· Oluli (-4140-10)	1						1	T				
Ref. No.	Address	New parts	Parts No.		Description	ı	Desti- nation	Ref. No.	Address	New parts	Parts No.		Description	on	Desti- nation
C486			CC73GCH1H121J	CHIP C	120PF	J		C718			CC73HCH1H070D	CHIP C	7.0PF	D	
C487			CK73HB1H102K	CHIP C		K		C719			CK73FB0J106K	CHIP C	10UF	K	
C491			CK73FB0J106K	CHIP C		K		C720			CK73HB1A104K	CHIP C	0.10UF	K	
			CK73HB1A104K	CHIP C		K		C720			CC73HCH1H100D	CHIP C	10PF	D	
C493,494															
C495			CK73GB1E105K	CHIP C	1.0UF	K		C722,723			CK73HB1H102K	CHIP C	1000PF	K	
C496			CK73HB1C822K	CHIP C	8200PF	K		C724			CK73HB1A104K	CHIP C	0.10UF	K	
C501			CK73HB1A104K	CHIP C	0.10UF	K		C725			CK73HB1H102K	CHIP C	1000PF	K	
C504			CK73HB1A104K	CHIP C		K		C726			CK73FB0J106K	CHIP C	10UF	K	
C506			CK73HB1H472K	CHIP C		K		C727			CC73HCH1H020B	CHIP C	2.0PF	В	
C507			CK73HB1E103K	CHIP C	0.010UF	K		C728			CK73HB1E103K	CHIP C	0.010UF	K	
C508			CK73HB1A104K	CHIP C	0.10UF	K		C729			CC73HCH1H020B	CHIP C	2.0PF	В	
C509			CK73GB1E105K	CHIP C	1.0UF	K		C730			CK73HB1A104K	CHIP C	0.10UF	K	
C515			CK73GB1E105K	CHIP C		K		C732			CK73HB1H102K	CHIP C	1000PF	K	
			CK73HB1H102K	CHIP C		K		C733-741			CK73HB1A104K	CHIP C	0.10UF	K	
C516															
C517			CK73HB1A104K	CHIP C	0.10UF	K		C742			CK73FB0J106K	CHIP C	10UF	K	
C519			CK73HB1C473K	CHIP C	0.047UF	K		C743,744			CK73HB1A104K	CHIP C	0.10UF	K	
C520			CK73GB1E105K	CHIP C		K		C746-750			CK73GB1E105K	CHIP C	1.0UF	K	
			CK73HB1E103K									CHIP C		K	
C521				CHIP C		K		C751			CK73HB1E103K		0.010UF		
C522-525			CK73HB1A104K	CHIP C		K		C754-758			CK73HB1A104K	CHIP C	0.10UF	K	
C526-529			CK73FB0J106K	CHIP C	10UF	K		C767,768			CK73HB1H102K	CHIP C	1000PF	K	
C531			CK73HB1H102K	CHIP C	1000PF	K		C769			CK73FB0J106K	CHIP C	10UF	K	
C532			CK73HB1A104K	CHIP C		K		C770-773			CK73HB1A104K	CHIP C	0.10UF	K	
C533-536			CK73HB1H102K	CHIP C		K		C775			CK73HB1H102K	CHIP C	1000PF	K	
C537			CK73FB0J106K	CHIP C	10UF	K		C776-780			CK73HB1E103K	CHIP C	0.010UF	K	
C538,539			CK73HB1H102K	CHIP C	1000PF	K		C781			CK73HB1A104K	CHIP C	0.10UF	K	
0540			CK73FB0J106K	CHIP C	10UF	K		C782			007011011111111111	CHIP C	12PF	G	
C543											CC73HCH1H120G				
C544-546			CK73HB1H102K	CHIP C		K		C783			CC73HCH1H100D	CHIP C	10PF	D	
C547			CK73FB0J106K	CHIP C	10UF	K		C784,785			CK73HB1A104K	CHIP C	0.10UF	K	
C548			CK73HB1E103K	CHIP C	0.010UF	K		C786			CC73HCH1H150J	CHIP C	15PF	J	
C549			CC73HCH1H120G	CHIP C		G		C787			CC73HCH1H100D	CHIP C	10PF	D	
0550 554			0070110114114000	OLUB O	1005			0700			01/70500 14001/	0.000	40115		
C550,551			CC73HCH1H100D	CHIP C		D		C788			CK73FB0J106K	CHIP C	10UF	K	
C552			CC73HCH1H150J	CHIP C	15PF	J		C789-793			CK73HB1A104K	CHIP C	0.10UF	K	
C553			CK73HB1E103K	CHIP C	0.010UF	K		C794			CK73FB0J106K	CHIP C	10UF	K	
C557			CK73HB1H102K	CHIP C	1000PF	K		C795			CK73HB1A104K	CHIP C	0.10UF	K	
C565			CK73FB0J106K	CHIP C		K		C796,797			CK73HB1E103K	CHIP C	0.010UF	K	
C566			CK73HB1H102K	CHIP C	1000PF	K		C798			CK73HB1A104K	CHIP C	0.10UF	K	
C567			CK73HB1E103K	CHIP C	0.010UF	K		C801			CK73HB1H102K	CHIP C	1000PF	K	
C569		*	CE32AU1C330M	CHIP EL	33UF	16WV		C802,803			CK73HB1A104K	CHIP C	0.10UF	K	
C570,571			CK73HB1H102K	CHIP C	1000PF	K		C804			CK73FB0J106K	CHIP C	10UF	K	
C572			CE32BM1E470M	CHIP EL		25WV		C808			CK73HB1H102K	CHIP C	1000PF	K	
0312			GEGZERNI E4/UNI	OTHI LL	4701	70 A A A		0000			OK/ JIID III IUZK	01111 0	100011	IX.	
C574			CK73HB1H102K	CHIP C		K		C809			CK73HB1A104K	CHIP C	0.10UF	K	
C575-588			CK73HB1E103K	CHIP C	0.010UF	K		C812			CK73HB1A104K	CHIP C	0.10UF	K	
C590-601			CK73HB1E103K	CHIP C	0.010UF	K		C813-815			CK73HB1H102K	CHIP C	1000PF	K	
C700			CK73HB1E103K	CHIP C		K		C816-818			CK73HB1A104K	CHIP C	0.10UF	K	
C700			CK73HB1A104K	CHIP C		K		C819			CK73HB1H102K	CHIP C	1000PF	K	
C702			CK73HB1H102K	CHIP C	1000PF	K		C820,821			CK73HB1A104K	CHIP C	0.10UF	K	
C703			CC73HCH1H150J	CHIP C	15PF	J		C822			CK73HB1H102K	CHIP C	1000PF	K	
C704,705			CK73FB0J106K	CHIP C		K		C825			CK73HB1H102K	CHIP C	1000PF	K	
C704,703			CK73HB1H102K	CHIP C		K		C826,827			CC73HCH1H101J	CHIP C	1000F1	J	
C706 C707			CC73HCH1H070D	CHIP C		D		C828			CK73HB1H102K	CHIP C	100PF	K	
-															
C708			CK73HB1A104K	CHIP C		K		C829			CC73HCH1H101J	CHIP C	100PF	J	
C709			CK73FB0J106K	CHIP C	10UF	K		C830			CK73HB1H102K	CHIP C	1000PF	K	
C710			CK73HB1E103K	CHIP C	0.010UF	K		C831			CC73HCH1H101J	CHIP C	100PF	J	
C711			CK73FB0J106K	CHIP C		K		C832			CK73HB1H102K	CHIP C	1000PF	K	
C712			CK73HB1H102K	CHIP C		K		C833,834			CK73HB1A104K	CHIP C	0.10UF	K	
C713			CK73HB1A104K	CHIP C		K		C835-837			CK73HB1H102K	CHIP C	1000PF	K	
C714			CK73FB0J106K	CHIP C		K		C838,839			CC73HCH1H101J	CHIP C	100PF	J	
C715			CK73HB1A104K	CHIP C	0.10UF	K		C841-848			CC73GCH1H470J	CHIP C	47PF	J	
C716			CK73HB1H102K	CHIP C	1000PF	K		C850			CC73GCH1H470J	CHIP C	47PF	J	
C717			CK73HB1A104K	CHIP C		K	I	C851-869			CC73HCH1H470J	CHIP C	47PF	J	
	1	I	2.00 00 17 (10 TIX	J J	5.1001			1 3331 303			20,00111117700	3.111	1711	-	

CONTROL UNIT (X53-4140-10)

C870-873 CN300 CN302 CN400-402 CN713 J700 J701 J702,703 L300-307 L308,309 L310 L311,312 L313-316 L317,318 L319-325 L326-329	Address	New parts	Parts No. CK73HB1H102K E04-0193-05 E04-0193-05 E40-6656-05 E41-2263-05 E58-0516-05 E58-0515-05 E58-0533-05 L92-0447-05 L41-8285-33 L41-1005-33	Description CHIP C 1000PF K PIN SOCKET PIN SOCKET PIN ASSY PIN ASSY MODULAR JACK RECTANGULAR RECEPTACLE MODULAR JACK BEADS CORE	Desti- nation	Ref. No. R401 R403 R404,405 R406 R408,409	Address	New parts	Parts No. RK73HB1J000J RK73GB2A000J RK73HB1J000J	CHIP R CHIP R CHIP R	0.0 0.0 0.0 0.0	J J J	1/16W 1/10W 1/16W	Desti- nation
CN300 CN302 CN400-402 CN400-402 CN713 J700 J701 J702,703 L300-307 L308,309 L310 L311,312 L313-316 L317,318 L319-325 L326-329		* *	E04-0193-05 E04-0193-05 E40-6656-05 E41-2263-05 E58-0516-05 E58-0553-05 E58-0547-05 L41-8285-33	PIN SOCKET PIN SOCKET PIN ASSY PIN ASSY MODULAR JACK RECTANGULAR RECEPTACLE MODULAR JACK		R403 R404,405 R406 R408,409			RK73GB2A000J	CHIP R CHIP R	0.0	J	1/10W	
CN302 CN400-402 CN713 J700 J701 J702,703 L300-307 L308,309 L310 L311,312 L313-316 L317,318 L319-325 L326-329		* *	E04-0193-05 E40-6656-05 E41-2263-05 E58-0516-05 E58-0533-05 L92-0447-05 L41-8285-33	PIN SOCKET PIN ASSY PIN ASSY MODULAR JACK RECTANGULAR RECEPTACLE MODULAR JACK		R404,405 R406 R408,409				CHIP R				
CN302 CN400-402 CN713 J700 J701 J702,703 L300-307 L308,309 L310 L311,312 L313-316 L317,318 L319-325 L326-329		* *	E04-0193-05 E40-6656-05 E41-2263-05 E58-0516-05 E58-0533-05 L92-0447-05 L41-8285-33	PIN SOCKET PIN ASSY PIN ASSY MODULAR JACK RECTANGULAR RECEPTACLE MODULAR JACK		R404,405 R406 R408,409				CHIP R				
CN302 CN400-402 CN713 J700 J701 J702,703 L300-307 L308,309 L310 L311,312 L313-316 L317,318 L319-325 L326-329		* *	E04-0193-05 E40-6656-05 E41-2263-05 E58-0516-05 E58-0533-05 L92-0447-05 L41-8285-33	PIN SOCKET PIN ASSY PIN ASSY MODULAR JACK RECTANGULAR RECEPTACLE MODULAR JACK		R406 R408,409			11107 51 15 10 00 00		0.0			
CN400-402 CN713 J700 J701 J702,703 L300-307 L308,309 L310 L311,312 L313-316 L317,318 L319-325 L326-329		* *	E40-6656-05 E41-2263-05 E58-0516-05 E58-0515-05 E58-0533-05 L92-0447-05 L41-8285-33	PIN ASSY PIN ASSY MODULAR JACK RECTANGULAR RECEPTACLE MODULAR JACK		R408,409			RK73GB2A000J	CHIP R	0.0	J	1/10W	
CN713 J700 J701 J702,703 L300-307 L308,309 L310 L311,312 L313-316 L317,318 L319-325 L326-329		* *	E41-2263-05 E58-0516-05 E58-0515-05 E58-0533-05 L92-0447-05 L41-8285-33	PIN ASSY MODULAR JACK RECTANGULAR RECEPTACLE MODULAR JACK		'			RK73HB1J000J	CHIP R	0.0	J	1/16W	
J700 J701 J702,703 L300-307 L308,309 L310 L311,312 L313-316 L317,318 L319-325 L326-329		* *	E58-0516-05 E58-0515-05 E58-0533-05 L92-0447-05 L41-8285-33	MODULAR JACK RECTANGULAR RECEPTACLE MODULAR JACK		D410			UK/SUDIJUUUJ	СПІГ П	0.0	J	1/1000	
J701 J702,703 L300-307 L308,309 L310 L311,312 L313-316 L317,318 L319-325 L326-329		* *	E58-0515-05 E58-0533-05 L92-0447-05 L41-8285-33	RECTANGULAR RECEPTACLE MODULAR JACK					DI/700D0 4 4 00 1	CLUD D	101/		1 /10\\	
J702,703 L300-307 L308,309 L310 L311,312 L313-316 L317,318 L319-325 L326-329		*	E58-0533-05 L92-0447-05 L41-8285-33	MODULAR JACK					RK73GB2A103J	CHIP R	10K	J	1/10W	
J702,703 L300-307 L308,309 L310 L311,312 L313-316 L317,318 L319-325 L326-329		*	E58-0533-05 L92-0447-05 L41-8285-33	MODULAR JACK		R411			RK73GB2A472J	CHIP R	4.7K	J	1/10W	
L300-307 L308,309 L310 L311,312 L313-316 L317,318 L319-325 L326-329		*	L92-0447-05 L41-8285-33			R413			RK73GB2A103J	CHIP R	10K	J	1/10W	
L308,309 L310 L311,312 L313-316 L317,318 L319-325 L326-329			L41-8285-33	BEADS CORE		R414			RK73HB1J000J	CHIP R	0.0	J	1/16W	
L308,309 L310 L311,312 L313-316 L317,318 L319-325 L326-329			L41-8285-33	BEADS CORE		R415			RK73HB1J100J	CHIP R	10	J	1/16W	
L310 L311,312 L313-316 L317,318 L319-325 L326-329				i .										
L311,312 L313-316 L317,318 L319-325 L326-329		,	L41 100E 22	SMALL FIXED INDUCTOR (0.82UH)		R416			RK73HB1J104J	CHIP R	100K	J	1/16W	
L313-316 L317,318 L319-325 L326-329			L41-1003-33	SMALL FIXED INDUCTOR (10UH)		R417			RK73HB1J000J	CHIP R	0.0	J	1/16W	
L317,318 L319-325 L326-329		*	L41-1595-33	SMALL FIXED INDUCTOR (1.5UH)		R418,419			RK73GB2A104J	CHIP R	100K	J	1/10W	
L319-325 L326-329		~	L92-0447-05	BEADS CORE		R420			RK73HB1J000J	CHIP R	0.0	J	1/16W	
L319-325 L326-329						R421			RK73HB1J100J	CHIP R	10	J	1/16W	
L319-325 L326-329		*	L33-1500-05	CHOKE COIL										
L326-329		*	L92-0447-05	BEADS CORE		R423			RK73HB1J000J	CHIP R	0.0	J	1/16W	
		.	L92-0447-05	CHIP FERRITE	I	R424			RK73GB2A681J	CHIP R	680	J	1/10W	
X300		*	L77-1988-05	VCXO (12.288MHZ)	I	R425			RK73HB1J000J	CHIP R	0.0	J	1/16W	
X300		*	L77-1984-05	CRYSTAL RESONATOR (14.7456MHZ)	I	R428			RK73GB2A100J	CHIP R	10	J	1/10W	
VOUL		~	L//-1304-UJ	GITTSTAL DESURATOR (14.7430IVIHZ)	I									
V700		_,	177 100F CF	CDVCTAL DECONIATOR (OF COACS SUFE	I	R429			RK73GB2A471J	CHIP R	470	J	1/10W	
X700		*	L77-1985-05	CRYSTAL RESONATOR (25.8048MHZ)	I	Dac.			BI/70LIB4 1005	01.110.0	0.0		4 (4 0) 4 :	
X701			L77-1802-05	CRYSTAL RESONATOR (32768HZ)		R431			RK73HB1J000J	CHIP R	0.0	J	1/16W	
X702		*	L77-1986-05	CRYSTAL RESONATOR (25MHZ)		R432			RK73GB2A220J	CHIP R	22	J	1/10W	
						R433			RK73HB1J105J	CHIP R	1.0M	J	1/16W	
CP716		*	RK75HA1JR00J	CHIP-COM 0.00 J 1/16W		R438			RK73GB2A100J	CHIP R	10	J	1/10W	
CP718		*	RK75HA1JR00J	CHIP-COM 0.00 J 1/16W		R439,440			RK73GB2A220J	CHIP R	22	J	1/10W	
CP720		*	RK75HA1JR00J	CHIP-COM 0.00 J 1/16W										
CP737		*	RK75HA1JR00J	CHIP-COM 0.00 J 1/16W		R441			RK73HB1J823J	CHIP R	82K	J	1/16W	
CP739		*	RK75HA1JR00J	CHIP-COM 0.00 J 1/16W		R442			RK73HB1J683J	CHIP R	68K	J	1/16W	
						R445			RK73HB1J393J	CHIP R	39K	J	1/16W	
CP743		*	RK75HA1JR00J	CHIP-COM 0.00 J 1/16W		R446,447			RK73HB1J000J	CHIP R	0.0	J	1/16W	
CP747		*	RK75HA1JR00J	CHIP-COM 0.00 J 1/16W		R448			RK73GB2A221J	CHIP R	220	J	1/10W	
CP750		*	RK75HA1JR00J	CHIP-COM 0.00 J 1/16W		11110			1110700002712210	01111 11	220	Ü	1/1011	
CP760		*	RK75HA1JR00J	CHIP-COM 0.00 J 1/16W		R449			RK73HB1J683J	CHIP R	68K	J	1/16W	
CP762		*	RK75HA1JR00J	CHIP-COM 0.00 J 1/16W		R451			RK73HB1J473J	CHIP R	47K	J	1/16W	
GF / 02		*	UN SULVISION OF THE PROPERTY AND THE PRO	CHIF-COIVI U.UU J 1/10VV		1								
00700			DI/ZELIA4 IDOO I	OLUB COMA COOL I 4/40/4/		R452-454			RK73HB1J100J	CHIP R	10	J	1/16W	
CP768		*	RK75HA1JR00J	CHIP-COM 0.00 J 1/16W		R457-461			RK73HB1J473J	CHIP R	47K	J	1/16W	
CP775-778		*	RK75HA1JR00J	CHIP-COM 0.00 J 1/16W		R464			RK73HB1J472J	CHIP R	4.7K	J	1/16W	
CP783-798		*	RK75HA1J390J	CHIP-COM 39 J 1/16W		l								
CP807-811		*	RK75HA1J104J	CHIP-COM 100K J 1/16W		R469			RK73HB1J470J	CHIP R	47	J	1/16W	
CP813		*	RK75HA1J104J	CHIP-COM 100K J 1/16W		R470			RK73HB1J102J	CHIP R	1.0K	J	1/16W	
						R474			RK73HB1J100J	CHIP R	10	J	1/16W	
CP814,815		*	RK75HA1JR00J	CHIP-COM 0.00 J 1/16W		R478			RK73HB1J100J	CHIP R	10	J	1/16W	
R300,301			RK73GB2A000J	CHIP R 0.0 J 1/10W		R479			RK73HB1J102J	CHIP R	1.0K	J	1/16W	
R302			RK73HB1J000J	CHIP R 0.0 J 1/16W	I									
R303			RK73GB2A000J	CHIP R 0.0 J 1/10W	I	R480			RK73HB1J100J	CHIP R	10	J	1/16W	
R309			RK73HB1J000J	CHIP R 0.0 J 1/16W		R481			RK73HB1J473J	CHIP R	47K	J	1/16W	
						R483			RK73HB1J104J	CHIP R	100K	J	1/16W	
R311-317			RK73HB1J000J	CHIP R 0.0 J 1/16W		R484			RK73HB1J000J	CHIP R	0.0	J	1/16W	
R318,319			RK73HB1J101J	CHIP R 100 J 1/16W		R485			RK73HB1J100J	CHIP R	10	Ĵ	1/16W	
R320-337			RK73HB1J000J	CHIP R 0.0 J 1/16W							-			
R339			RK73HB1J473J	CHIP R 47K J 1/16W		R486-489			RK73HB1J000J	CHIP R	0.0	J	1/16W	
R340-350			RK73HB1J000J	CHIP R 0.0 J 1/16W		R491-505			RK73HB1J000J	CHIP R	0.0	J	1/16W	
				3.0 0 1/1000		R516-518			RK73HB1J473J	CHIP R	47K	J	1/16W	
R352-354			RK73HB1J000J	CHIP R 0.0 J 1/16W	I	R521			RK73HB1J000J	CHIP R	0.0	J	1/16W	
R356-360			RK73HB1J000J	CHIP R 0.0 J 1/16W	I	R522			RK73HB1J473J	CHIP R	47K	J	1/16W	
R361			RK73GB2A104J	CHIP R 100K J 1/10W	I	IIJZZ			רע וארו מווט ואוו	OTHI N	7/ N	J	1/1000	
R362					I	R526			DV70UD1 JOOO J	CHIER	0.0		1/16/4/	
			RK73GB2A681J	CHIP R 680 J 1/10W	I				RK73HB1J000J	CHIP R	0.0	J	1/16W	
R363-386			RK73HB1J000J	CHIP R 0.0 J 1/16W	I	R527			RK73HB1J473J	CHIP R	47K	J	1/16W	
D007			DI/701 ID4 1404 1	OLUB B. ACCIV. 1. 4 (4.5)	I	R528,529			RK73HB1J000J	CHIP R	0.0	J	1/16W	
R387			RK73HB1J104J	CHIP R 100K J 1/16W	I	R530			RK73HB1J473J	CHIP R	47K	J	1/16W	
R388-390			RK73GB2A000J	CHIP R 0.0 J 1/10W	I	R531,532			RK73HB1J000J	CHIP R	0.0	J	1/16W	
R391			RK73GB2A100J	CHIP R 10 J 1/10W	I									
R392			RK73HB1J103J	CHIP R 10K J 1/16W		R533,534			RK73HB1J473J	CHIP R	47K	J	1/16W	
R393-397			RK73HB1J000J	CHIP R 0.0 J 1/16W		R535-539			RK73HB1J000J	CHIP R	0.0	J	1/16W	
						R540-542			RK73HB1J473J	CHIP R	47K	J	1/16W	
R398			RK73HB1J104J	CHIP R 100K J 1/16W		R543			RK73HB1J000J	CHIP R	0.0	Ĵ	1/16W	
R399			RK73HB1J151J	CHIP R 150 J 1/16W		R546			RK73HB1J000J	CHIP R	0.0	J	1/16W	
													,	

CONTROL UNIT (X53-4140-10)

CONTROL	. UNIT	_	-4140-10)	T								I					
Ref. No.	Address	New parts	Parts No.		Descr	iption		Desti- nation	Ref. No.	Address	New parts	Parts No.		Descr	iptio	1	Desti- nation
R547,548			RK73HB1J473J	CHIP R	47K	J	1/16W		R702,703			RK73HB1J473J	CHIP R	47K	J	1/16W	
R549			RK73HB1J000J	CHIP R	0.0	Ĵ	1/16W		R709,710			RK73HB1J104J	CHIP R	100K	J	1/16W	
R550			RK73HB1J473J	CHIP R	47K	J	1/16W		R711			RK73GB2A000J	CHIP R	0.0	J	1/10W	
				CHIP R									CHIP R				
R551,552			RK73HB1J000J		0.0	J	1/16W		R712-714			RK73HB1J100J		10	J	1/16W	
R553-555			RK73HB1J473J	CHIP R	47K	J	1/16W		R715			RK73GB2A000J	CHIP R	0.0	J	1/10W	
R556,557			RK73HB1J000J	CHIP R	0.0	J	1/16W		R716			RK73HB1J000J	CHIP R	0.0	J	1/16W	
R559			RK73HB1J102J	CHIP R	1.0K	J	1/16W		R718			RK73HB1J104J	CHIP R	100K	J	1/16W	
R560			RK73HB1J103J	CHIP R	10K	J	1/16W		R719			RK73HB1J472J	CHIP R	4.7K	J	1/16W	
R561			RK73HB1J000J	CHIP R	0.0	J	1/16W		R720			RK73HB1J100J	CHIP R	10	J	1/16W	
R562			RK73HB1J103J	CHIP R	10K	J	1/16W		R721			RK73GB2A000J	CHIP R	0.0	J	1/10W	
NJ0Z			UK/3UBIJIU3J	CHIF N	IUK	J	1/1000		n/ZI			nk/3dbZA0003	CHIF N	0.0	J	1/1000	
R564-566			RK73HB1J000J	CHIP R	0.0	J	1/16W		R722			RK73HB1J472J	CHIP R	4.7K	J	1/16W	
R567			RK73HB1J473J	CHIP R	47K	J	1/16W		R725,726			RK73HB1J000J	CHIP R	0.0	J	1/16W	
R568			RK73HB1J000J	CHIP R	0.0	J	1/16W		R727			RK73HB1J103J	CHIP R	10K	J	1/16W	
R569			RK73HB1J224J	CHIP R	220K	J	1/16W		R729,730			RK73HB1J000J	CHIP R	0.0	J	1/16W	
R570			RK73HB1J000J	CHIP R	0.0	Ĵ	1/16W		R731			RK73HB1J103J	CHIP R	10K	J	1/16W	
R573-576			RK73HB1J000J	CHIP R	0.0	J	1/16W		R732			RK73HB1J390J	CHIP R	39	J	1/16W	
R577,578			RK73HB1J473J	CHIP R	47K	J	1/16W	 	R733			RK73HB1J104J	CHIP R	100K	J	1/16W	
R579			RK73HB1J000J	CHIP R	0.0	J	1/16W	 	R734			RK73HB1J102J	CHIP R	1.0K	J	1/16W	
R581			RK73HB1J000J	CHIP R	0.0	J	1/16W		R735,736			RK73HB1J000J	CHIP R	0.0	J	1/16W	
R582			RK73HB1J473J	CHIP R	47K	J	1/16W		R738			RK73HB1J104J	CHIP R	100K	J	1/16W	
R583			RK73HB1J000J	CHIP R	0.0	J	1/16///		R742			RK73HB1J104J	CHIP R	100K		1/16//	
				CHIP R			1/16W	 					CHIP R		J	1/16W	
R584			RK73HB1J473J		47K	J	1/16W		R743,744			RK73HB1J153J		15K	J	1/16W	
R585,586			RK73HB1J000J	CHIP R	0.0	J	1/16W		R745			RK73HB1J104J	CHIP R	100K	J	1/16W	
R587			RK73HB1J473J	CHIP R	47K	J	1/16W		R751			RK73HB1J000J	CHIP R	0.0	J	1/16W	
R588			RK73HB1J000J	CHIP R	0.0	J	1/16W		R754			RK73HB1J103J	CHIP R	10K	J	1/16W	
R589			RK73HB1J473J	CHIP R	47K	J	1/16W		R756			RK73HB1J000J	CHIP R	0.0	J	1/16W	
R590			RK73HB1J000J	CHIP R	0.0	J	1/16W		R758			RK73HB1J103J	CHIP R	10K	J	1/16W	
																-	
R591			RK73HB1J223J	CHIP R	22K	J	1/16W		R759			RK73HB1J000J	CHIP R	0.0	J	1/16W	
R592-600			RK73HB1J000J	CHIP R	0.0	J	1/16W		R760			RK73HB1J103J	CHIP R	10K	J	1/16W	
R602			RK73HB1J103J	CHIP R	10K	J	1/16W		R761-765			RK73GB2A000J	CHIP R	0.0	J	1/10W	
R604			RK73HB1J103J	CHIP R	10K	J	1/16W		R766			RK73HB1J000J	CHIP R	0.0	J	1/16W	
R605-610			RK73HB1J000J	CHIP R	0.0	J	1/16W		R767			RK73HB1J102J	CHIP R	1.0K	J	1/16W	
R612-616			RK73HB1J000J	CHIP R	0.0	J	1/16W		R768-770			RK73HB1J000J	CHIP R	0.0	J	1/16W	
R620-623			RK73HB1J000J	CHIP R	0.0	J	1/16W		R772-777			RK73HB1J104J	CHIP R	100K	J	1/16W	
R624			RK73HB1J473J	CHIP R	47K	J	1/16W		R778			RK73HB1J000J	CHIP R	0.0	J	1/16W	
R626			RK73HB1J473J	CHIP R	47K	J	1/16W		R779			RK73HB1J104J	CHIP R	100K	J	1/16W	
R627			RK73HB1J000J	CHIP R	0.0	J	1/16W		R780			RK73HB1J000J	CHIP R	0.0	J	1/16W	
R629-631			RK73HB1J000J	CHIP R	0.0	J	1/16W		R781-784			RK73HB1J104J	CHIP R	100K	J	1/16W	
R632			RK73HB1J101J	CHIP R	100	J	1/16W		R785			RK73HB1J272J	CHIP R	2.7K	J	1/16W	
							-										
R634			RK73HB1J473J	CHIP R	47K	J	1/16W		R786-788			RK73HB1J104J	CHIP R	100K	J	1/16W	
R635,636			RK73HB1J000J	CHIP R	0.0	J	1/16W		R794			RK73HB1J104J	CHIP R	100K	J	1/16W	
R637-640			RK73HB1J473J	CHIP R	47K	J	1/16W	 	R796			RK73HB1J104J	CHIP R	100K	J	1/16W	
R641			RK73HB1J000J	CHIP R	0.0	J	1/16W		R799-803			RK73HB1J104J	CHIP R	100K	J	1/16W	
R642			RK73HB1J101J	CHIP R	100	J	1/16W		R805-808			RK73HB1J103J	CHIP R	10K	J	1/16W	
R643			RK73HB1J473J	CHIP R	47K	J	1/16W		R816			RK73HB1J105J	CHIP R	1.0M	J	1/16W	
R644			RK73HB1J000J	CHIP R	0.0	J	1/16W		R817			RK73HB1J821J	CHIP R	820 100K	J	1/16W	
R646			RK73HB1J473J	CHIP R	47K	J	1/16W	 	R818			RK73HB1J104J	CHIP R	100K	J	1/16W	
R648			RK73HB1J000J	CHIP R	0.0	J	1/16W	 	R819			RK73GB2A000J	CHIP R	0.0	J	1/10W	
R649			RK73HB1J101J	CHIP R	100	J	1/16W		R820			RK73HB1J103J	CHIP R	10K	J	1/16W	
R650			RK73HB1J473J	CHIP R	47K	J	1/16W		R821			RK73HB1J000J	CHIP R	0.0	J	1/16W	
R651-653			RK73HB1J000J	CHIP R	0.0	J	1/16W		R822			RK73HB1J103J	CHIP R	10K	J	1/16W	
R656,657			RK73HB1J000J	CHIP R	0.0	J	1/16W		R824			RK73HB1J103J	CHIP R	10K	J	1/16W	
								 	R826				CHIP R				
R660-664			RK73HB1J000J	CHIP R	0.0	J	1/16W					RK73HB1J103J		10K	J	1/16W	
R667,668 R672-674			RK73HB1J000J RK73HB1J473J	CHIP R CHIP R	0.0 47K	J J	1/16W 1/16W		R827 R828			RK73GB2A000J RK73HB1J104J	CHIP R CHIP R	0.0 100K	J J	1/10W 1/16W	
11072*074			1111/3110134/33	OTHI II	7/ N	J	1/1000		11020			1117 3110 10 10 1040	01111 11	TUUK	J	1/1000	
R678,679			RK73HB1J000J	CHIP R	0.0	J	1/16W		R829		*	RK73HH1J113D	CHIP R	11K	D	1/16W	
R680			RK73HB1J473J	CHIP R	47K	J	1/16W	 	R830			RK73HB1J104J	CHIP R	100K	J	1/16W	
R685-687			RK73HB1J000J	CHIP R	0.0	J	1/16W	 	R832			RK73HB1J104J	CHIP R	100K	J	1/16W	
R690			RK73HB1J000J	CHIP R	0.0	J	1/16W	 	R833			RK73HB1J000J	CHIP R	0.0	J	1/16W	
R700,701			RK73HB1J103J	CHIP R	10K	Ĵ	1/16W	 	R834			RK73HB1J104J	CHIP R	100K	Ĵ	1/16W	
-,						_						1	1		_		

CONTROL UNIT (X53-4140-10)

RX LINIT (X55-3090-10)

Ref. No.	Address	New	Parts No.		Descr	intior	1	Dești-	Ref. No.	Address	New	Parts No.	Description	Dești-
	Auultas	parts		OLUD D				nation		Auultaa	parts		-	nation
R835 R837		*	RK73HB1J000J RK73GH2A49R9D	CHIP R CHIP R	0.0 49.9	J D	1/16W 1/10W		IC308 IC309			XC61CN2702N AK4550VTP	MOS-IC MOS-IC	
R839		••	RK73GB2A000J	CHIP R	0.0	J	1/10W		IC312		*	ADCS7476AIMF	MOS-IC	
R840		*	RK73GH2A49R9D	CHIP R	49.9	D	1/10W		IC313			TC7WU04FK-F	MOS-IC	
R842-845		*	RK73HB1J104J	CHIP R	100K	J	1/16W		IC314		*	Note 1 (BGA)	ROM IC	
				0	10011	Ü	1, 1011		1.00		·	11010 1 (2011)		
R867,868		*	RK73GH2A24R9D	CHIP R	24.9	D	1/10W		IC315		*	ADF4001BRUZ	MOS-IC	
R869			RK73HB1J331J	CHIP R	330	J	1/16W		IC318		*	TC7SH126FU-F	MOS-IC	
R870			RK73HB1J000J	CHIP R	0.0	J	1/16W		IC319-321		*	TC7SET126FU-F	MOS-IC	
R871-873			RK73HB1J103J	CHIP R	10K	J	1/16W		IC323,324			Note 1 (BGA)	MICROPROCESSOR IC	
R874			RK73HB1J000J	CHIP R	0.0	J	1/16W		IC325		*	3625MGP396GP	MICROPROCESSOR IC	
R875,876		*	RK73GH2A24R9D	CHIP R	24.9	D	1/10W		IC327			TC7SH08FU-F	MOS-IC	
R877,878		~	RK73HB1J103J	CHIP R	10K	J	1/16W		IC329	1C	*	BA33DD0WT	MOS-IC	
R879			RK73GB2A000J	CHIP R	0.0	J	1/10W		IC330	10	*	TC7SH126FU-F	MOS-IC	
R880,881			RK73HB1J104J	CHIP R	100K	J	1/16W		IC700		*	62167DV30LL55	SRAM IC	
R883-885			RK73HB1J000J	CHIP R	0.0	J	1/16W		IC700		*	RV5C386A	MOS-IC	
							.,							
R886			RK73HB1J221J	CHIP R	220	J	1/16W		IC702		*	29PL127JKCDB	ROM IC	
R887			RK73HB1J000J	CHIP R	0.0	J	1/16W		IC703		*	Note 1 (BGA)	MICROPROCESSOR IC	
R888			RK73HB1J221J	CHIP R	220	J	1/16W		IC704		*	48LC8M16A2P75I	DRAM IC	
R889			RK73HB1J103J	CHIP R	10K	J	1/16W		IC705		*	ADM3202ARUZ	MOS-IC	
R890			RK73HB1J000J	CHIP R	0.0	J	1/16W		IC707		*	48LC8M16A2P75I	DRAM IC	
D001			DV79UD1 104	CHIDD	1001/		1/16\\/		10700			BU4829FVE	MOC IC	
R891			RK73HB1J104J	CHIP R	100K	J	1/16W		IC708				MOS-IC	
R892,893			RK73HB1J000J	CHIP R	0.0	J	1/16W		IC709		*	TC7SH126FU-F	MOS-IC	
R894			RK73HB1J103J	CHIP R	10K	J	1/16W		IC710,711			TC7SH00FU-F	MOS-IC	
R895			RK73HB1J151J	CHIP R	150	J	1/16W		IC712,713		20	TC7SH32FU-F TC7MA244FK	MOS-IC	
R896			RK73HB1J101J	CHIP R	100	J	1/16W		IC714-716		*	TUTIVIAZ44FK	MOS-IC	
R897			RK73HB1J104J	CHIP R	100K	J	1/16W		IC717,718		*	TC7MA245FK	MOS-IC	
R902,903			RK73HB1J000J	CHIP R	0.0	J	1/16W		IC719		*	LAN91C111I-NU	MOS-IC	
R907			RK73HB1J000J	CHIP R	0.0	J	1/16W		IC720			AT93C4610SU1.8	ROM IC	
R909			RK73HB1J000J	CHIP R	0.0	J	1/16W		IC721			TC7SH08FU-F	MOS-IC	
R910			RK73HB1J473J	CHIP R	47K	J	1/16W		IC722			TC7SH32FU-F	MOS-IC	
R911			RK73HB1J000J	CHIP R	0.0	J	1/10\\/		IC723			TC7SH00FU-F	MOS-IC	
				CHIP R			1/16W					TC7SH125FU-F		
R912			RK73HB1J473J	1	47K	J	1/16W		IC724		*		MOS-IC	
R913,914 R915			RK73HB1J000J	CHIP R CHIP R	0.0 47K	J J	1/16W		IC725 IC726		*	TC7SH126FU-F TC7SH08FU-F	MOS-IC MOS-IC	
R916-923			RK73HB1J473J RK73HB1J000J	CHIP R	0.0	J	1/16W 1/16W		IC720		*	TC7SH126FU-F	MOS-IC	
11010 323			11107 31115 10 00 00 0	01111 11	0.0	U	1/10**		10/2/,/20		-,-	107011120101	WOO TO	
R924			RK73HB1J104J	CHIP R	100K	J	1/16W		Q300			2SC4738(GR)F	TRANSISTOR	
R926			RK73HB1J473J	CHIP R	47K	J	1/16W		Q301			DTC114EUA	DIGITAL TRANSISTOR	
R927-933			RK73HB1J000J	CHIP R	0.0	J	1/16W		Q302			2SA1955A-F	TRANSISTOR	
R934,935			RK73HB1J474J	CHIP R	470K	J	1/16W		Q303			DTA144EUA	DIGITAL TRANSISTOR	
R936			RK73HB1J104J	CHIP R	100K	J	1/16W		0304,305			2SC4738(GR)F	TRANSISTOR	
R942			RK73HB1J104J	CHIP R	100K	J	1/16W		0307,308			2SC4738(GR)F	TRANSISTOR	
R943			RK73HB1J000J	CHIP R	0.0	J	1/16W		Q307,300 Q309			SSM6N16FE-F	FET	
n943 R945-950			RK73HB1J000J	CHIP R	0.0	J	1/16W		Q700			2SC4738(GR)F	TRANSISTOR	
R951			RK73HB1J104J	CHIP R	100K	J	1/16W		Q702			2SC4738(GR)F	TRANSISTOR	
R952,953			RK73HB1J000J	CHIP R	0.0	J	1/16W		Q704.705			2SC4738(GR)F	TRANSISTOR	
1002,000			11107 31115 10 00 00	01111 11	0.0	U	1/10**		4704,703			2004700(GH)i	MANOIOTON	
R954-957			RK73GB2A000J	CHIP R	0.0	J	1/10W		Q706			DTC114EUA	DIGITAL TRANSISTOR	
R960			RK73GB2A000J	CHIP R	0.0	J	1/10W		Ω707			DTC144EUA	DIGITAL TRANSISTOR	
S700		*	S79-0473-05	DIP SWIT	CHES				BA300		*	W09-1004-05	LITHIUM CELL	
D300			1SS388F	DIODE										
D701			1SS388F	DIODE										
D702			1SS355	DIODE								BX LINIT /	(55-3090-10)	
IC300,301		*	TC7SET126FU-F	MOS-IC					DO4					
C302		*	SN65HVD485EDR	MOS-IC					D21			B30-2230-05	LED (1608/YG/8)	
C303			BU4829FVE	MOS-IC					C10			CK73GB1H102K	CHIP C 1000PF K	
C304		*	TC7SH125FU-F	MOS-IC					C12			CC73GCH1H080D	CHIP C 8.0PF D	
C305		*	XC6209B332PR	MOS-IC					C14			CK73GB1H102K	CHIP C 1000PF K	
		*	BA15BC0FP	MOS-IC					C15			CK73GB1H104K	CHIP C 0.10UF K	
				,				1		1				
C306 C307		*	XC6201P152PR	MOS-IC					C17			CK73GB1H102K	CHIP C 1000PF K	

PARTS LIST

Ref. No.	New	Parts No.												D 4
C18	parts	raits ivo.		Descriptio	n	Desti- nation	Ref. No.	Address	New parts	Parts No.		Descriptio	n	Desti- nation
		CK73GB1H104K	CHIP C	0.10UF	K		C104			CK73GB1H102K	CHIP C	1000PF	K	
C19		CK73GB1H102K	CHIP C	1000PF	K		C105			CC73GCH1H060B	CHIP C	6.0PF	В	
C25		CK73GB1H104K	CHIP C	0.10UF	K	- 1	C106			CC73GCH1H050B	CHIP C	5.0PF	В	
C26		CK73GB1H471K	CHIP C	470PF	K	- 1	C107			CC73GCH1H330J	CHIP C	33PF	J	
C27		CK73GB1H102K	CHIP C	1000PF	K		C108			CC73GCH1H560J	CHIP C	56PF	J	
C31		CS77BA1E010M	CHIP TNTL	1UF	25WV		C109,110			CK73GB1H103K	CHIP C	0.010UF	K	
C32		CC73GCH1H151J	CHIP C	150PF	J		C103,110			CC73GCH1H220J	CHIP C	22PF	J	
C33		CC73GCH1H1313	CHIP C	270PF	J		C112			CC73GCH1H070B	CHIP C	7.0PF	В	
C35		CK73GB1H471K	CHIP C	470PF	K		C113			CC73GCH1H060B	CHIP C	6.0PF	В	
C36		CK73GB1H102K	CHIP C	1000PF	K		C115			CC73GCH1H150J	CHIP C	15PF	J	
000		OK/30DTITIOZK	OTHI O	100011	K		0113			00730011111300	Orini O	1011	o .	
C37		CK73FB1E224K	CHIP C	0.22UF	K		C116			CC73GCH1H560J	CHIP C	56PF	J	
C38		CS77CA1VR33M	CHIP TNTL	0.33UF	35WV		C117			CC73GCH1H121J	CHIP C	120PF	J	
C39		CC73GCH1H271J	CHIP C	270PF	J		C118-120			CK73GB1H102K	CHIP C	1000PF	K	
C41,42		CK73GB1H102K	CHIP C	1000PF	K		C122			CC73GCH1H150J	CHIP C	15PF	J	
C43		CC73GCH1H561J	CHIP C	560PF	J		C123			CC73GCH1H080B	CHIP C	8.0PF	В	
CAA		CK73GB1H103K	CHIP C	0.010UF	K		C124			CC73GCH1H070B	CHIP C	7.0PF	В	
C44						- 1								
C45		CK73GB1H104K	CHIP C	0.10UF	K		C125			CC73GCH1H150J	CHIP C	15PF	J	
C46		CC73GCH1H561J	CHIP C	560PF	J	- 1	C126			CK73GB1H104K	CHIP C	0.10UF	K	
C47		CK73GB1H102K	CHIP C	1000PF	K	- 1	C128			CC73GCH1H560J	CHIP C	56PF	J	
C48		CK73GB1H104K	CHIP C	0.10UF	K		C129,130			CK73GB1H103K	CHIP C	0.010UF	K	
C50		CE32BM1E470M	CHIP EL	47UF	25WV		C131		*	CS77CC1C330M	CHIP TNTL	33UF	16WV	
C51		CK73GB1H104K	CHIP C	0.10UF	K		C132-134		-	CK73GB1H102K	CHIP C	1000PF	K	
C53		CC73GCH1H271J	CHIP C	270PF	J		C137			CC73GCH1H120J	CHIP C	12PF	J	
C54		CC73GCH1H101J	CHIP C	100PF	J		C138			CC73GCH1H330J	CHIP C	33PF	J	
C55		CC73GCH1H120J	CHIP C	12PF	J		C139			CE32BM1E470M	CHIP EL	47UF	25WV	
C56		CC73GCH1H271J	CHIP C	270PF	J		C140,141			CK73GB1H103K	CHIP C	0.010UF	K	
C58	*	CS77CB21A470M	CHIP TNTL	47UF	10WV	- 1	C142,143			CC73FCH1H0R5B	CHIP C	0.5PF	В	
C59		CK73GB1H104K	CHIP C	0.10UF	K		C144-146			CK73GB1H104K	CHIP C	0.10UF	K	
C60,61		CK73GB1H102K	CHIP C	1000PF	K		C147		*	CS77CC1C330M	CHIP TNTL	33UF	16WV	
C62-66		CK73GB1H104K	CHIP C	0.10UF	K		C149,150			CC73GCH1H180J	CHIP C	18PF	J	
C67	*	CS77CB21A470M	CHIP TNTL	47UF	10WV		C151			CC73GCH1H150J	CHIP C	15PF	J	
C68	-•-	CC73GCH1H101J	CHIP C	100PF	J		C152			CC73GCH1H030C	CHIP C	3.0PF	C	
C69		CK73GB1H102K	CHIP C	1000PF	K		C152			CC73GCH1H060D	CHIP C	6.0PF	D	
C70	*	CS77CC1C330M	CHIP TNTL	33UF	16WV		C153 C154,155			CK73GB1H104K	CHIP C	0.10UF	K	
C71	~	CC73GCH1H271J	CHIP C	270PF	J		C154,133			CC73GCH1H150J	CHIP C	15PF	J	
													•	
C74		CC73GCH1H271J	CHIP C	270PF	J		C157,158			CK73GB1H102K	CHIP C	1000PF	K	
C75	*	CS77CC1C330M	CHIP TNTL	33UF	16WV		C159,160			CK73GB1H104K	CHIP C	0.10UF	K	
C76		CC73GCH1H561J	CHIP C	560PF	J	- 1	C161			CC73GCH1H030C	CHIP C	3.0PF	С	
C77		CK73GB1H104K	CHIP C	0.10UF	K	- 1	C162			CC73GCH1H060D	CHIP C	6.0PF	D	
C79		CS77BA1E010M	CHIP TNTL	1UF	25WV		C164			CK73GB1H104K	CHIP C	0.10UF	K	
C80		CC73GCH1H561J	CHIP C	560PF	J		C165			CS77CB21C100M	CHIP TNTL	10UF	16WV	
C81		CK73GB1H104K	CHIP C	0.10UF	K		C166,167			CC73GCH1H180J	CHIP C	18PF	J	
C82		CC73GCH1H271J	CHIP C	270PF	J		C166,167			CK73GB1H102K	CHIP C	1000PF	K	
C83-85		CK73GB1H102K	CHIP C	1000PF	K		C166			CC73GCH1H270J	CHIP C	27PF	J	
C86		CC73GCH1H271J	CHIP C	270PF	J		C170,171			CK73GB1H104K	CHIP C	0.10UF	K	
C87		CK73GB1H104K	CHIP C	0.10UF	K		C172			CK73GB1H473K	CHIP C	0.047UF	K	
C88		CK73GB1H103K	CHIP C	0.010UF	K		C173,174			CK73GB1H103K	CHIP C	0.010UF	K	
C89		CC73GCH1H070B	CHIP C	7.0PF	В		C175			CC73GCH1H101J	CHIP C	100PF	J	
C90		CK73GB1H103K	CHIP C	0.010UF	K		C176			CK73GB1H104K	CHIP C	0.10UF	K	
C91		CC73GCH1H050B	CHIP C	5.0PF	В		C177-179			CK73GB1H102K	CHIP C	1000PF	K	
C92		CC73GCH1H070B	CHIP C	7.0PF	В		C180			CK73GB1H104K	CHIP C	0.10UF	K	
C93		CC73GCH1H060B	CHIP C	6.0PF	В		C183		*	CE32AU1E100M	CHIP EL	10UF	25WV	
C94		CC73GCH1H050B	CHIP C	5.0PF	В		C185,186		•	CK73GB1H102K	CHIP C	1000PF	K	
C95		CC73GCH1H080B	CHIP C	8.0PF	В		C103,100			CC73GCH1H150J	CHIP C	15PF	J	
C96		CE32BM1E470M	CHIP EL	47UF	25WV		C188			CK73GB1H103K	CHIP C	0.010UF	K	
C97		CK73GB1H104K	CHIP C	0.10UF	K		C192			CK73GB1H102K	CHIP C	1000PF	K	
C98,99		CK73GB1H102K	CHIP C	1000PF	K		C193			CK73GB1H104K	CHIP C	0.10UF	K	
C100		CK73GB1H103K	CHIP C	0.010UF	K		C194			CC73GCH1H270J	CHIP C	27PF	J	
C102		CK73GB1H102K	CHIP C	1000PF	K		C195			CK73GB1H102K	CHIP C	1000PF	K	
C102 C103		CC73GCH1H120J	CHIP C	12PF	J		C196,197	I	1	CK73GB1H103K	CHIP C	0.010UF	K	1

Ref. No.	Address	New	Parts No.		Descriptio	n	Desti-	Ref. No.	Address	New	Parts No.		Descriptio	n	Desti-
		parts			-		nation			parts					nation
C198			CK73GB1H102K	CHIP C	1000PF	K		C285			CC73GCH1H470J	CHIP C	47PF	J	
C199			CK73GB1H103K	CHIP C	0.010UF	K		C287			CC73GCH1H390J	CHIP C	39PF	J	
203,204			CK73GB1H102K	CHIP C	1000PF	K		C288,289			CC73GCH1H150J	CHIP C	15PF	J	
206			CC73GCH1H150J	CHIP C	15PF	J		C290,291			CK73GB1H473K	CHIP C	0.047UF	K	
C211,212			CK73GB1H103K	CHIP C	0.010UF	K		C292			CE32CL1V100M	CHIP EL	10UF	35WV	
JZ11,Z1Z			OK/OGD/11100K	Orni o	0.01001	K					0232021 1 100111	OTTIL EE	1001	33***	
213			CK73GB1H473K	CHIP C	0.047UF	K		C293			CC73GCH1H151J	CHIP C	150PF	J	
214			CC73GCH1H150J	CHIP C	15PF	J		C295			CK73GB1H102K	CHIP C	1000PF	K	
215			CK73GB1H103K	CHIP C	0.010UF	K		C296		*	CS77CA1DR68M	CHIP TNTL	0.68UF	20WV	
216			CK73GB1H473K	CHIP C	0.047UF	K		C297		'	CC73GCH1H151J	CHIP C	150PF	J	
				1				1							
217			CK73GB1H104K	CHIP C	0.10UF	K		C298			CK73GB1H102K	CHIP C	1000PF	K	
C218			CK73GB1H473K	CHIP C	0.047UF	K		C300			CC73GCH1H220G	CHIP C	22PF	G	
220			CC73GCH1H150J	CHIP C	15PF	J		C301			CK73GB1H473K	CHIP C	0.047UF	K	
221,222			CK73GB1H104K	CHIP C	0.10UF	K		C303,304			CK73GB1H473K	CHIP C		K	
				1											
223			CK73GB1H103K	CHIP C	0.010UF	K		C305			CC73GCH1H151J	CHIP C	150PF	J	
224			CK73GB1H104K	CHIP C	0.10UF	K		C306			CK73GB1H102K	CHIP C	1000PF	K	
225			CK73GB1H473K	CHIP C	0.047UF	K		C307,308			CK73GB1H103K	CHIP C	0.010UF	K	
227			CK73GB1H102K	CHIP C	1000PF	K		C309			CK73GB1H471K	CHIP C	470PF	K	
				1				1							
228,229			CK73FB1E474K	CHIP C	0.47UF	K		C310			CK73GB1H102K	CHIP C	1000PF	K	
230			CC73GCH1H820J	CHIP C	82PF	J		C314			CK73GB1H104K	CHIP C	0.10UF	K	
231			CK73GB1H473K	CHIP C	0.047UF	K		C315			CC73GCH1H270G	CHIP C	27PF	G	
232			CC73GCH1H101J	CHIP C	100PF	J		C316			CK73GB1H473K	CHIP C	0.047UF	K	
				1				1							
233			CK73GB1H473K	CHIP C	0.047UF	K		C317			CC73GCH1H151J	CHIP C	150PF	J	
234,235			CC73GCH1H270J	CHIP C	27PF	J		C318,319			CK73GB1H103K	CHIP C	0.010UF	K	
236			CK73GB1H104K	CHIP C	0.10UF	K		C320			CE32BM1E470M	CHIP EL	47UF	25WV	
237			CK73GB1H102K	CHIP C	1000PF	K		C324			CK73GB1H102K	CHIP C	1000PF	K	
239		*	CE32AU1C330M	CHIP EL	33UF	16WV		C325			CC73GCH1H270G	CHIP C	27PF	G	
240			CS77CB21C100M	CHIP TNTL	10UF	16WV		C326			CC73GCH1H151J	CHIP C	150PF	J	
241,242			CC73GCH1H150J	CHIP C	15PF	J		C327			CK73GB1H102K	CHIP C	1000PF	K	
243			CC73GCH1H820J	CHIP C	82PF	J		C329			CK73GB1H103K	CHIP C	0.010UF	K	
244			CC73GCH1H330J	CHIP C	33PF	Ĵ		C330			CK73GB1H102K	CHIP C	1000PF	K	
245			CK73GB1H102K	CHIP C	1000PF	K		C331			CC73GCH1H020B	CHIP C	2.0PF	В	
248			CK73GB1H102K	CHIP C	1000PF	K		C332			CK73GB1H104K	CHIP C	0.10UF	K	
249			CC73GCH1H150J	CHIP C	15PF	J		C333			CC73GCH1H151J	CHIP C	150PF	J	
250,251			CK73GB1H104K	CHIP C	0.10UF	K		C334,335			CK73GB1H103K	CHIP C	0.010UF	K	
252			CC73GCH1H151J	CHIP C	150PF	J		C336			CK73GB111103K	CHIP C	1000PF	K	
			00700011111010	0							01.700011110211	0			
253			CC73GCH1H010C	CHIP C	1.0PF	C		C337			CC73GCH1H560J	CHIP C	56PF	J	
254			CC73GCH1H030C	CHIP C	3.0PF	C		C340		*	CS77CC1C330M	CHIP TNTL	33UF	16WV	
255			CK73GB1H104K	CHIP C	0.10UF	K		C341.342			CK73GB1H473K	CHIP C	0.047UF	K	
256			CK73GB1H102K	CHIP C	1000PF	K		C343			CC73GCH1H220J	CHIP C	22PF	J	
257			CK73GB1H103K	CHIP C				C347,348			CK73GB1H103K	CHIP C			
237			CK/3db1H1U3K	CHIF C	0.010UF			6347,340			CK/3dBITTU3K	CHIF C	0.010UF	K	
258			CK73GB1H473K	CHIP C	0.047UF	K		C349			CC73GCH1H121J	CHIP C	120PF	J	
260			CK73GB1H102K	CHIP C	1000PF	K		C350		*	CS77CC1C330M	CHIP TNTL	33UF	16WV	
261			CK73GB1H103K	CHIP C	0.010UF	K		C351			CK73GB1H102K	CHIP C	1000PF	K	
262,263			CK73GB1H103K	CHIP C	1000PF	K		C352			CK73GB111102K	CHIP C	0.047UF		
262,263 264			CS77CA1ER47M	CHIP C	0.47UF	25WV		C352			CK73GB1H473K CK73GB1H102K	CHIP C	1000PF	K	
					2 51								. 2007 1		
265			CC73GCH1H470J	CHIP C	47PF	J		C355			CK73GB1H103K	CHIP C	0.010UF		
266,267			CK73GB1H102K	CHIP C	1000PF	K		C356			CK73GB1H473K	CHIP C	0.047UF	K	
268,269			CK73GB1H473K	CHIP C	0.047UF	K		C357			CK73GB1H103K	CHIP C	0.010UF	K	
270		*	CS77CA1DR68M	CHIP TNTL	0.68UF	20WV		C358			CK73GB1H473K	CHIP C	0.047UF		
.70		•	CK73GB1H102K	CHIP C	1000PF	K		C359-361			CK73GB1H102K	CHIP C	1000PF	K	
272			CK73GB1H104K	CHIP C	0.10UF	K		C362			CC73GCH1H270J	CHIP C	27PF	J	
273			CC73GCH1H220J	CHIP C	22PF	J		C363			CK73GB1H473K	CHIP C	0.047UF	K	
274			CK73GB1H473K	CHIP C	0.047UF	K		C365,366			CK73GB1H104K	CHIP C	0.10UF	K	
277			CK73GB1H102K	CHIP C	1000PF	K		C367			CC73GCH1H560J	CHIP C	56PF	J	
278			CC73GCH1H151J	CHIP C	150PF	J		C368			CC73GCH1H330J	CHIP C	33PF	J	
-						-									
279			CK73GB1H473K	CHIP C	0.047UF	K		C369,370			CK73FB1E474K	CHIP C	0.47UF	K	
:80			CC73GCH1H080B	CHIP C	8.0PF	В		C371			CK73GB1H102K	CHIP C	1000PF	K	
281			CC73GCH1H030B	CHIP C	3.0PF	В		C372			CK73GB1H473K	CHIP C	0.047UF	K	
282		*	CS77CB21C150M	CHIP TNTL	15UF	16WV		C373			CK73GB1H103K	CHIP C	0.010UF		
		.	CK73GB1H473K	CHIP C	0.047UF			C375				CHIP C			
284			UN/3000104/3N	LUDIEL	U.U4/UF	r\		L03/3	1	I	CK73GB1H103K	UNIT U	0.010UF	Γ.	1

PARTS LIST

RX UNIT (Address	New	Parts No.		Description	Desti-	Dof No	Address	New	Douto No		ooorintia		Desti-
	Address	parts			Description	nation	Ref. No.	Addres	parts	raits No.		escriptio		nation
C377			CK73GB1H103K	CHIP C	0.010UF K		C467			CK73GB1H102K	1	1000PF	K	
C379			CC73GCH1H121J	CHIP C	120PF J		C468			CK73GB1H104K	1	0.10UF	K	
C380			CC73GCH1H560J	CHIP C	56PF J		C469			CK73GB1H473K	CHIP C	0.047UF	K	
C381			CE32BM1E470M	CHIP EL	47UF 25W		C470			CK73GB1H471K	CHIP C	470PF	K	
C382,383			CK73GB1H104K	CHIP C	0.10UF K		C471,472			CK73GB1H104K	CHIP C	0.10UF	K	
			0./==00											
C385,386			CK73GB1H104K	CHIP C	0.10UF K		C473			CC73GCH1H270J	1	27PF	J	
C387			CC73GCH1H270J	CHIP C	27PF J		C474			CK73FB1E474K	CHIP C	0.47UF	K	
C388			CC73GCH1H820J	CHIP C	82PF J		C476		*	CE32AU1E100M	CHIP EL	10UF	25WV	
C389			CK73GB1H473K	CHIP C	0.047UF K		C477			CK73GB1H104K	CHIP C	0.10UF	K	
C390			CK73GB1H104K	CHIP C	0.10UF K		C478			CK73FB1E474K	CHIP C	0.47UF	K	
C391,392			CK73GB1H103K	CHIP C	0.010UF K		C480-482			CE32CL1V100M	1 -	10UF	35WV	
C394,395			CK73GB1H102K	CHIP C	1000PF K		C484-489			CK73GB1H102K	CHIP C	1000PF	K	
C396-398			CK73GB1H104K	CHIP C	0.10UF K		C491			CK73GB1H104K	CHIP C	0.10UF	K	
C400			CC73GCH1H220J	CHIP C	22PF J		C492		*	C93-0912-05	CERAMIC CAP)		
C401			CK73GB1H473K	CHIP C	0.047UF K		C493			CK73GB1H473K	1	0.047UF	K	
C402			CC73GCH1H560J	CHIP C	56PF J		C494			CK73FB0J106K		10UF	K	
C403			CK73GB1H104K	CHIP C	0.10UF K		C495			CK73GB1H104K	1	0.10UF	K	
C405			CK73GB1H102K	CHIP C	1000PF K		C498			CC73GCH1H470J	CHIP C	47PF	J	
C406			CK73GB1H103K	CHIP C	0.010UF K		C499			CK73FB0J106K	CHIP C	10UF	K	
C407			CC73GCH1H560J	CHIP C	56PF J		C500-504			CK73GB1H102K	CHIP C	1000PF	K	
0.400			00700011411577	OLUB C	0005		0505			01/70500 140511	OLUE O	40115	K	
C408			CC73GCH1H220J	CHIP C	22PF J		C505			CK73FB0J106K	1	10UF	K	
C409			CK73GB1H102K	CHIP C	1000PF K		C506			CK73GB1H102K	1	1000PF	K	
C410			CK73GB1H104K	CHIP C	0.10UF K		C507			CK73GB1H104K	CHIP C	0.10UF	K	
C411			CC73GCH1H121J	CHIP C	120PF J		C508			CK73FB0J106K	CHIP C	10UF	K	
C412			CK73GB1H104K	CHIP C	0.10UF K		C509			CC73GCH1H101J	CHIP C	100PF	J	
C413			CK73GB1H103K	CHIP C	0.010UF K		C510			CK73GB1H104K	1	0.10UF	K	
C414			CK73GB1H104K	CHIP C	0.10UF K		C516			CK73GB1H473K	1	0.047UF	K	
C415,416			CK73GB1H103K	CHIP C	0.010UF K		C517			CK73FB0J106K	CHIP C	10UF	K	
C417			CK73GB1H104K	CHIP C	0.10UF K		C518			CK73GB1H104K	CHIP C	0.10UF	K	
C418,419			CK73GB1H103K	CHIP C	0.010UF K		C519			CK73GB1H102K	CHIP C	1000PF	K	
C420			CK73GB1H102K	CHIP C	1000PF K		C520			CK73GB1H103K	1	0.010UF	K	
C421,422			CK73GB1H473K	CHIP C	0.047UF K		C521			CK73GB1H104K	CHIP C	0.10UF	K	
C423,424			CK73GB1H103K	CHIP C	0.010UF K		C522			CK73GB1H103K	CHIP C	0.010UF	K	
C425			CK73GB1H104K	CHIP C	0.10UF K		C523			CK73GB1H104K	CHIP C	0.10UF	K	
C427			CK73FB1E474K	CHIP C	0.47UF K		C524			CK73FB1H333K	1	0.033UF	K	
C428,429			CC73GCH1H560J	CHIP C	56PF J		C527			CK73GB1H104K	1	0.10UF	K	
C430			CK73GB1H102K	CHIP C	1000PF K		C532			CK73GB1H104K	CHIP C	0.10UF	K	
C431			CK73GB1H473K	CHIP C	0.047UF K		C533-536			CE32CL1V100M	CHIP EL	10UF	35WV	
C432			CK73GB1H102K	CHIP C	1000PF K		C537-540			CK73GB1H102K	CHIP C	1000PF	K	
C434,435			CK73GB1H473K	CHIP C	0.047UF K		C541,542			CK73GB1H104K	CHIP C	0.10UF	K	
							1							
C437			CK73GB1H102K	CHIP C	1000PF K		C543			CK73GB1H473K	1	0.047UF	K	
C438			CK73GB1H473K	CHIP C	0.047UF K		C544			CC73GCH1H470J	1	47PF	J	
C439			CK73GB1H104K	CHIP C	0.10UF K		C545-548			CK73GB1H102K	1	1000PF	K	
C440-442			CK73FB1E474K	CHIP C	0.47UF K		C549			CC73GCH1H470J	CHIP C	47PF	J	
C443,444			CK73GB1H473K	CHIP C	0.047UF K		C550-553			CK73GB1H103K	CHIP C	0.010UF	K	
0440			0F00 ALI4 F4 00\$ 4	OLUB 51	10UE 05148		0554			01/70004114701/	CLUD C	0.047115	V	
C446		*	CE32AU1E100M	CHIP EL	10UF 25W		C554			CK73GB1H473K		0.047UF	K	
C447			CK73FB1E474K	CHIP C	0.47UF K		C555		*	CE32BM1V220M	1	22UF	35WV	
C448			CK73GB1H104K	CHIP C	0.10UF K		C556			CK73GB1H102K	1	1000PF	K	
C449			CK73GB1H473K	CHIP C	0.047UF K		C557			CK73GB1H473K	CHIP C	0.047UF	K	
C450,451			CK73FB1E474K	CHIP C	0.47UF K		C558			CK73GB1H102K	CHIP C	1000PF	K	
0450 450			CV70CD4LI4C4V	CLUD C	0.10115 1/		CEEO			CV70CD4114C4V	CLUP C	0.1017	V	
C452,453			CK73GB1H104K	CHIP C	0.10UF K		C559			CK73GB1H104K	1	0.10UF	K	
C454,455			CK73FB1E474K	CHIP C	0.47UF K		C560,561			CK73GB1H102K	1	1000PF	K	
C456			CK73GB1H473K	CHIP C	0.047UF K		C562			CK73GB1H473K	1	0.047UF	K	
C458			CK73GB1H104K	CHIP C	0.10UF K		C563			CK73GB1H102K	CHIP C	1000PF	K	
C459			CC73GCH1H221J	CHIP C	220PF J		C564			CK73GB1H103K	CHIP C	0.010UF	K	
0400			01/7050454741/	OLUE O	0.47115 1/		0505			01/70004114001/	OLUB C	400005	K	
C460			CK73FB1E474K	CHIP C	0.47UF K		C565			CK73GB1H102K	1	1000PF	K	
C461			CC73GCH1H221J	CHIP C	220PF J		C566			CK73GB1H473K	1	0.047UF	K	
C462			CK73GB1H104K	CHIP C	0.10UF K		C567			CE32CL1V100M	1 -	10UF	35WV	
C463-465			CK73FB1E474K	CHIP C	0.47UF K		C568			CC73GCH1H470J	CHIP C	47PF	J	
C466			CK73GB1H473K	CHIP C	0.047UF K		C569			CK73GB1H102K	CHIP C	1000PF	K	
							L							

Ref. No.	Address	New parts	Parts No.		Descriptio	n	Desti- nation	Ref. No.	Address	New parts	Parts No.	Description	Desti- nation
C570			CC73GCH1H470J	CHIP C	47PF	J		CN45			E04-0193-05	PIN SOCKET	
C571		*	C92-0904-05	OS-CON				CN46,47			E41-2735-05	PIN ASSY	
C572,573			CK73GB1H103K	CHIP C	0.010UF	K		CN61,62		*	E23-1280-05	TERMINAL	
C574-576			CK73GB1H104K	CHIP C	0.10UF	K							
C577			CK73GB1H103K	CHIP C	0.010UF	K		E1			F10-2379-04	SHIELDING CASE	
								E2			F10-2409-04	SHIELDING CASE	
C578			CC73GCH1H151J	CHIP C	150PF	J		E3		*	F10-3080-04	SHIELDING CASE	
C579			CC73GCH1H560J	CHIP C	56PF	J		1		'			
580-582			CK73GB1H103K	CHIP C	0.010UF	K		CF1		*	L72-1019-05	CERAMIC FILTER	
C583			CK73GB1H102K	CHIP C	1000PF	K		CF2		*	L72-1028-05	CERAMIC FILTER	
C584			CK73GB1H103K	CHIP C	0.010UF	K		CF3,4		*	L72-1020-05	CERAMIC FILTER	
7304			GK75GDTTTTOSK	GIIII G	0.01001	K		CF5,6		*	L72-1027-03	CERAMIC FILTER	
פרסר			007000114114701	CLUD C	4700			1		1			
585			CC73GCH1H470J	CHIP C	47PF	J		CF7		*	L72-1027-05	CERAMIC FILTER	
586			CK73GB1H102K	CHIP C	1000PF	K		1					
587-590			CK73FB1E474K	CHIP C	0.47UF	K		L2			L34-4616-05	AIR-CORE COIL	
591			CK73GB1H102K	CHIP C	1000PF	K		L5			L41-2275-33	SMALL FIXED INDUCTOR (0.022UH)	
618			CC73GCH1H101J	CHIP C	100PF	J		L8,9			L41-1875-33	SMALL FIXED INDUCTOR (0.018UH)	
								L10			L41-6885-33	SMALL FIXED INDUCTOR (0.68UH)	
C619			CK73GB1H104K	CHIP C	0.10UF	K		L11			L41-1295-33	SMALL FIXED INDUCTOR (1.2UH)	
620			CK73GB1H102K	CHIP C	1000PF	K							
621,622			CK73GB1H104K	CHIP C	0.10UF	K		L12			L41-6875-33	SMALL FIXED INDUCTOR (0.068UH)	
624			CC73GCH1H390J	CHIP C	39PF	J		L13			L41-1295-33	SMALL FIXED INDUCTOR (1.2UH)	
C625,626			CC73GCH1H050C	CHIP C	5.0PF	C		L14			L41-1805-33	SMALL FIXED INDUCTOR (18UH)	
7020,020			007000111110000	011111 0	0.011	· ·		L16			L41-2705-33	SMALL FIXED INDUCTOR (27UH)	
C627			CC73GCH1H060D	CHIP C	6.0PF	D		L17,18			L41-1005-33	SMALL FIXED INDUCTOR (10UH)	
C628			CC73GCH1H390J	CHIP C	39PF	J		L17,10			141-1003-33	SWALL TIXED INDUCTOR (TOOT)	
								100			L44 400F 00	CMALL FIVED INDUCTOR (4 2000)	
C629			CC73GCH1H060D	CHIP C	6.0PF	D		L20			L41-1295-33	SMALL FIXED INDUCTOR (1.2UH)	
631,632			CC73GCH1H050C	CHIP C	5.0PF	C		L21,22			L41-1005-33	SMALL FIXED INDUCTOR (10UH)	
633			CC73GCH1H060D	CHIP C	6.0PF	D		L23			L41-1295-33	SMALL FIXED INDUCTOR (1.2UH)	
								L24,25			L41-1005-33	SMALL FIXED INDUCTOR (10UH)	
C634			CC73GCH1H390J	CHIP C	39PF	J		L26			L41-1095-33	SMALL FIXED INDUCTOR (1.0UH)	
635-646			CC73GCH1HR75B	CHIP C	0.75PF	В							
C647			CK73GB1H102K	CHIP C	1000PF	K		L27			L41-1005-33	SMALL FIXED INDUCTOR (10UH)	
648,649			CC73GCH1H120J	CHIP C	12PF	J		L28		*	L34-4586-05	AIR-CORE COIL	
2650			CC73GCH1H390J	CHIP C	39PF	J		L29		'	L41-1005-33	SMALL FIXED INDUCTOR (10UH)	
,,,,,,			007000111110000	011111 0	0011	o .		L30		*	L34-4586-05	AIR-CORE COIL	
C651			CE32BM1E470M	CHIP EL	47UF	25WV		L31		**	L41-3375-33	SMALL FIXED INDUCTOR (0.033UH)	
								LUI			L41-3373-33	SWALL TIXED INDUCTOR (0.055011)	
C652-654			CK73GB1H104K	CHIP C	0.10UF	K		100			1.44.0075.00	ON ANTI- FIVED INIDITOTOR (O COCUIU)	
C655			CK73FB0J106K	CHIP C	10UF	K		L32			L41-8275-33	SMALL FIXED INDUCTOR (0.082UH)	
C657			CC73GCH1H270J	CHIP C	27PF	J		L33			L41-2785-33	SMALL FIXED INDUCTOR (0.27UH)	
C658			CK73FB1E474K	CHIP C	0.47UF	K		L34		*	L41-1205-33	SMALL FIXED INDUCTOR (12UH)	
								L35			L41-3395-33	SMALL FIXED INDUCTOR (3.3UH)	
C659			CC73GCH1H060D	CHIP C	6.0PF	D		L36			L41-3375-33	SMALL FIXED INDUCTOR (0.033UH)	
C660			CC73GCH1H050C	CHIP C	5.0PF	С							
2661			CK73GB1H104K	CHIP C	0.10UF	K		L37		*	L41-1205-33	SMALL FIXED INDUCTOR (12UH)	
2662			CC73GCH1H070B	CHIP C	7.0PF	В		L38			L41-1095-33	SMALL FIXED INDUCTOR (1.0UH)	
2663			CC73GCH1H080B	CHIP C	8.0PF	В		L39			L41-3375-33	SMALL FIXED INDUCTOR (0.033UH)	
								L40,41			L41-1005-33	SMALL FIXED INDUCTOR (10UH)	
2664			CC73GCH1H060B	CHIP C	6.0PF	В		L42			L41-3375-33	SMALL FIXED INDUCTOR (0.033UH)	
665			CC73GCH1H080B	CHIP C	8.0PF	В		1					
C666,667			CK73GB1H102K	CHIP C	1000PF	K		L43,44			L41-3395-33	SMALL FIXED INDUCTOR (3.3UH)	
2668			CC73GCH1H080B	CHIP C	8.0PF	В		L45,44 L45			L41-3375-33	SMALL FIXED INDUCTOR (0.033UH)	
,669			CC73GCH1H080B	CHIP C	7.0PF	В		L45 L46,47			L34-4749-05	COIL	
,009			CC/3GCHTHU/UB	CHIP	7.UPF	В							
2070			00700014110500	OLUB O	E 00E			L48			L41-1095-33	SMALL FIXED INDUCTOR (1.0UH)	
670			CC73GCH1H050B	CHIP C	5.0PF	В		L49			L41-2705-33	SMALL FIXED INDUCTOR (27UH)	
C671			CK73GB1H104K	CHIP C	0.10UF	K							
2673-675			CE32BM1E470M	CHIP EL	47UF	25WV		L50			L41-1085-33	SMALL FIXED INDUCTOR (0.1UH)	
677			CK73GB1H104K	CHIP C	0.10UF	K		L51			L92-0140-05	CHIP FERRITE	
C1-8			C05-0301-05	CERAMIC TE	RIMMER CA	PACITOR (7PF)		L52,53			L34-4749-05	COIL	
								L54			L41-1075-33	SMALL FIXED INDUCTOR (0.01UH)	
N1-4		*	E23-1280-05	TERMINAL				L55			L41-1085-33	SMALL FIXED INDUCTOR (0.1UH)	
N5		*	E04-0460-05	RF COAXIAL	RECFPTACI	E (SMB)							
N6		.	E41-2735-05	PIN ASSY		_ (0/		L56		*	L41-8295-33	SMALL FIXED INDUCTOR (8.2UH)	
N8-35		*	E23-1280-05	TERMINAL				L57		1.0	L41-4775-33	SMALL FIXED INDUCTOR (0.047UH)	
		~										· · ·	
CN36			E41-2735-05	PIN ASSY				L58,59			L41-1885-33	SMALL FIXED INDUCTOR (0.18UH)	
NIOC CC		_	E00 4000 05	TED: 400				L60,61			L41-3375-33	SMALL FIXED INDUCTOR (0.033UH)	
N38,39		*	E23-1280-05	TERMINAL				L62			L41-1075-33	SMALL FIXED INDUCTOR (0.01UH)	
CN41			E04-0154-05	PIN SOCKET									
	1		E40-6656-05	PIN ASSY				L66,67			L41-8275-33	SMALL FIXED INDUCTOR (0.082UH)	
CN42				1				Line	1	*	1 44 0005 00	CMANIL FIVED INDUCTOR (COLUN	1
CN42 CN43			E04-0193-05	PIN SOCKET				L68		~	L41-8295-33	SMALL FIXED INDUCTOR (8.2UH)	

PARTS LIST

RX UNIT (X55-30	90-1	0)											
Ref. No.	Address	New parts	Parts No.	Description	Desti- nation	Ref. No.	Address	New parts	Parts No.		Descr	iptior	ı	Desti- nation
L70			L41-3985-33	SMALL FIXED INDUCTOR (0.39UH)		R11.12			RK73GB2A681J	CHIP R	680	J	1/10W	
L71			L41-1595-33	SMALL FIXED INDUCTOR (1.5UH)		R13			RK73GB2A682J	CHIP R	6.8K	J	1/10W	
L72			L41-3985-33	SMALL FIXED INDUCTOR (0.39UH)		R14			RK73FB2B100J	CHIP R	10	J	1/8W	
L72			L41-2285-33	SMALL FIXED INDUCTOR (0.22UH)		R15,16			RK73GB2A000J	CHIP R	0.0	J	1/10W	
L73 L74,75			L34-4748-05	COIL		R17			RK73GB2A000J	CHIP R	180	J	1/10W	
L/4,/3			L34-4740-03	COIL		ln1/			NK/3UDZATOTJ	CHIEN	100	J	1/1000	
L76			L41-3975-33	SMALL FIXED INDUCTOR (0.039UH)		R19,20			RK73GB2A104J	CHIP R	100K	J	1/10W	
L77			L92-0140-05	CHIP FERRITE		R21			RK73GB2A684J	CHIP R	680K	J	1/10W	
L78			L41-1005-33	SMALL FIXED INDUCTOR (10UH)		R22			RK73GB2A474J	CHIP R	470K	J	1/10W	
L79			L41-1095-33	SMALL FIXED INDUCTOR (1.0UH)		R23			RK73GB2A000J	CHIP R	0.0	J	1/10W	
L80			L41-3975-33	SMALL FIXED INDUCTOR (0.039UH)		R24			RK73GB2A100J	CHIP R	10	J	1/10W	
L81			L41-8285-33	SMALL FIXED INDUCTOR (0.82UH)		R26,27			RK73GB2A000J	CHIP R	0.0	J	1/10W	
L82			L41-1005-33	SMALL FIXED INDUCTOR (10UH)		R28			RK73GB2A0003	CHIP R	10	J	1/10W	
						R29				CHIP R				
L83			L41-6895-33	SMALL FIXED INDUCTOR (6.8UH)		1			RK73GB2A152J		1.5K	J	1/10W	
L86			L41-1585-33	SMALL FIXED INDUCTOR (0.15UH)		R30			RK73GB2A684J	CHIP R	680K	J	1/10W	
L87			L41-1005-33	SMALL FIXED INDUCTOR (10UH)		R31			RK73GB2A181J	CHIP R	180	J	1/10W	
L88		*	L41-8295-33	SMALL FIXED INDUCTOR (8.2UH)		R32			RK73GB2A104J	CHIP R	100K	J	1/10W	
L89			L41-3985-33	SMALL FIXED INDUCTOR (0.39UH)		R33			RK73GB2A102J	CHIP R	1.0K	J	1/10W	
L90,91			L34-4748-05	COIL		R34			RK73GB2A471J	CHIP R	470	J	1/10W	
L92			L41-3975-33	SMALL FIXED INDUCTOR (0.039UH)		R36			RK73GB2A103J	CHIP R	10K	J	1/10W	
L93			L41-1085-33	SMALL FIXED INDUCTOR (0.1UH)		R37			RK73GB2A123J	CHIP R	12K	J	1/10W	
L94,95			L39-1476-05	TOROIDAL COIL		R38			RK73GB2A470J	CHIP R	47	J	1/10W	
										1				
L96			L41-3985-33	SMALL FIXED INDUCTOR (0.39UH)		R39			RK73GB2A000J	CHIP R	0.0	J	1/10W	
L97			L41-1005-33	SMALL FIXED INDUCTOR (10UH)		R40			RK73GB2A102J	CHIP R	1.0K	J	1/10W	
L98,99		*	L41-1895-33	SMALL FIXED INDUCTOR (1.8UH)		R42,43			RK73GB2A000J	CHIP R	0.0	J	1/10W	
L100			L41-3985-33	SMALL FIXED INDUCTOR (0.39UH)		R44			RK73GB2A220J	CHIP R	22	J	1/10W	
L101			L41-1595-33	SMALL FIXED INDUCTOR (1.5UH)		R45			RK73GB2A471J	CHIP R	470	J	1/10W	
L102			L41-1005-33	SMALL FIXED INDUCTOR (10UH)		R46			RK73GB2A330J	CHIP R	33	J	1/10W	
L102			L41-3985-33	SMALL FIXED INDUCTOR (0.39UH)		R48			RK73FB2B221J	CHIP R	220	J	1/8W	
L103			L41-1585-33	, ,		R50			RK73FB2B2213	CHIP R	22	J	1/8W	
				SMALL FIXED INDUCTOR (0.15UH)						1				
L107			L41-6895-33	SMALL FIXED INDUCTOR (6.8UH)		R52			RK73GB2A100J	CHIP R	10	J	1/10W	
L108,109			L41-4775-33	SMALL FIXED INDUCTOR (0.047UH)		R53,54			RK73GB2A000J	CHIP R	0.0	J	1/10W	
L110			L41-1585-33	SMALL FIXED INDUCTOR (0.15UH)		R55			RK73FB2B221J	CHIP R	220	J	1/8W	
L111			L41-1595-33	SMALL FIXED INDUCTOR (1.5UH)		R56			RK73GB2A100J	CHIP R	10	J	1/10W	
L112,113			L39-1476-05	TOROIDAL COIL		R57			RK73GB2A470J	CHIP R	47	J	1/10W	
L114			L41-6875-33	SMALL FIXED INDUCTOR (0.068UH)		R60			RK73GB2A100J	CHIP R	10	J	1/10W	
1115			L41-8275-33	CMALL FIVED INDUCTOR (0.0021111)		DC1			DV70CD2 A 470 I	CLUID D	47		1 /10\\	
L115				SMALL FIXED INDUCTOR (0.082UH)		R61			RK73GB2A470J	CHIP R	47	J	1/10W	
L116,117			L41-1585-33	SMALL FIXED INDUCTOR (0.15UH)		R62,63			RK73GB2A102J	CHIP R	1.0K	J	1/10W	
L118			L41-6875-33	SMALL FIXED INDUCTOR (0.068UH)		R64			RK73GB2A000J	CHIP R	0.0	J	1/10W	
L119			L41-2285-33	SMALL FIXED INDUCTOR (0.22UH)		R65			RK73GB2A682J	CHIP R	6.8K	J	1/10W	
L120		*	L41-8295-33	SMALL FIXED INDUCTOR (8.2UH)		R66,67			RK73GB2A391J	CHIP R	390	J	1/10W	
L121			L41-1595-33	SMALL FIXED INDUCTOR (1.5UH)		R68			RK73GB2A392J	CHIP R	3.9K	J	1/10W	
L122			L41-1585-33	SMALL FIXED INDUCTOR (0.15UH)		R69-71			RK73GB2A102J	CHIP R	1.0K	J	1/10W	
L123			L41-3395-33	SMALL FIXED INDUCTOR (3.3UH)		R72			RK73GB2A2R2J	CHIP R	2.2	J	1/10W	
L124-126			L41-1585-33	SMALL FIXED INDUCTOR (0.15UH)		R73			RK73GB2A104J	CHIP R	100K	J	1/10W	
L127		*	L41-8295-33	SMALL FIXED INDUCTOR (8.2UH)		R75,76			RK73GB2A103J	CHIP R	10K	J	1/10W	
I 120			124 4725 05	COII		D77 70			DV72ED2D470 I	CHILD	47		1 /0\/	
L128			L34-4725-05	COIL		R77,78			RK73FB2B470J	CHIP R	47	J	1/8W	
L129,130			L41-1005-33	SMALL FIXED INDUCTOR (10UH)		R79			RK73GB2A100J	CHIP R	10	J	1/10W	
L131		١.	L41-1585-33	SMALL FIXED INDUCTOR (0.15UH)		R80			RK73GB2A271J	CHIP R	270	J	1/10W	
L132-139		*	L34-4614-05	AIR-CORE COIL		R81			RK73FB2B000J	CHIP R	0.0	J	1/8W	
L140,141			L41-3985-33	SMALL FIXED INDUCTOR (0.39UH)		R82			RK73GB2A102J	CHIP R	1.0K	J	1/10W	
XF1		*	L71-0646-05	MCF (49.95M/WIDE)		R83,84			RK73GB2A472J	CHIP R	4.7K	J	1/10W	
XF2		*	L71-0645-05	MCF (49.95M/NARROW)		R85			RK73GB2A333J	CHIP R	33K	J	1/10W	
XF3		*	L71-0648-05	MCF (49.95M/WIDE)		R86			RK73GB2A104J	CHIP R	100K	J	1/10W	
XF4		*	L71-0647-05	MCF (49.95M/NARROW)		R88			RK73GB2A103J	CHIP R	10K	Ĵ	1/10W	
D1			DI/70CD0 A 000 I	CHIED ONLY 1 4/40M		R89			RK73GB2A100J	CHIP R	10	J	1/10W	
R1 R2			RK73GB2A332J RK73GB2A182J	CHIP R 3.3K J 1/10W CHIP R 1.8K J 1/10W		R90			RK73GB2A330J	CHIP R	33	J	1/10W	
R4				-						CHIP R				
			RK73FB2B121J	CHIP R 120 J 1/8W		R91			RK73GB2A101J	1	100	J	1/10W	
DO	1		RK73GB2A000J	CHIP R 0.0 J 1/10W		R92			RK73GB2A104J	CHIP R	100K	J	1/10W	
R8														
R8 R9			RK73GB2A332J	CHIP R 3.3K J 1/10W	l	R93 R94			RK73GB2A105J RK73GB2A682J	CHIP R CHIP R	1.0M 6.8K	J J	1/10W 1/10W	

Def No	A d d	lew	Davis N		D	4: -		Desti-	Def No	٠ اداد ۸	New	Dout- N-		D	:4: -	_	Desti-
Ref. No.	Address	arts	Parts No.		Descr	ption	l	nation	Ref. No.	Address	parts	Parts No.		Descr	iptior	1	nation
R95			RK73GB2A152J	CHIP R	1.5K	J	1/10W		R180			RK73GB2A100J	CHIP R	10	J	1/10W	
R96,97			RK73GB2A100J	CHIP R	10	J	1/10W		R181			RK73GB2A102J	CHIP R	1.0K	J	1/10W	
R98			RK73GB2A181J	CHIP R	180	J	1/10W		R183			RK73GB2A102J	CHIP R	1.0K	J	1/10W	
			RK73GB2A331J	CHIP R					R184			RK73GB2A000J	CHIP R	0.0		1/10W	
R99					330	J	1/10W								J	•	
R100			RK73GB2A000J	CHIP R	0.0	J	1/10W		R185			RK73GB2A100J	CHIP R	10	J	1/10W	
R101			RK73FB2B100J	CHIP R	10	J	1/8W		R186,187			RK73GB2A104J	CHIP R	100K	J	1/10W	
R102			RK73GB2A181J	CHIP R	180	J	1/10W		R189,190			RK73FB2B101J	CHIP R	100	J	1/8W	
R103			RK73GB2A682J	CHIP R	6.8K	J	1/10W		R191,192			RK73FB2B271J	CHIP R	270	J	1/8W	
R104.105			RK73GB2A123J	CHIP R	12K	J	1/10W		R193			RK73GB2A102J	CHIP R	1.0K	J	1/10W	
R106			RK73GB2A105J	CHIP R	1.0M	J	1/10W		R194			RK73GB2A1023	CHIP R	4.7K	J	1/10W	
R107,108			RK73GB2A103J	CHIP R	10K	J	1/10W		R195			RK73GB2A181J	CHIP R	180	J	1/10W	
R110			RK73GB2A332J	CHIP R	3.3K	J	1/10W		R196,197			RK73FB2B100J	CHIP R	10	J	1/8W	
R112			RK73GB2A102J	CHIP R	1.0K	J	1/10W		R198,199			RK73GB2A102J	CHIP R	1.0K	J	1/10W	
R114			RK73GB2A102J	CHIP R	1.0K	J	1/10W		R200			RK73GB2A682J	CHIP R	6.8K	J	1/10W	
R115			RK73FB2B220J	CHIP R	22	J	1/8W		R201			RK73GB2A330J	CHIP R	33	J	1/10W	
R116			RK73GB2A101J	CHIP R	100	J	1/10W		R202			RK73GB2A2R2J	CHIP R	2.2	J	1/10W	
R117,118			RK73FB2B220J	CHIP R	22	J	1/8W	I	R203			RK73GB2A104J	CHIP R	100K	J	1/10W	
R119,120			RK73GB2A103J	CHIP R	10K	J	1/10W	I	R204			RK73GB2A332J	CHIP R	3.3K	J	1/10W	
R122			RK73GB2A101J	CHIP R	100	J	1/10W	I	R205			RK73GB2A682J	CHIP R	6.8K	J	1/10W	
R123			RK73GB2A153J	CHIP R	15K	J	1/10W		R206			RK73GB2A152J	CHIP R	1.5K	J	1/10W	
R124			RK73GB2A392J	CHIP R	3.9K	J	1/10W		R207,208			RK73GB2A470J	CHIP R	47	J	1/10W	
R125			RK73GB2A3923	CHIP R	1.0K	J	1/10W	I	R209			RK73GB2A4703	CHIP R	100		1/10W	
								I							J	•	
R128			RK73GB2A101J	CHIP R	100	J	1/10W	I	R210			RK73GB2A100J	CHIP R	10	J	1/10W	
R129			RK73GB2A102J	CHIP R	1.0K	J	1/10W		R211			RK73GB2A104J	CHIP R	100K	J	1/10W	
R130,131			RK73FB2B100J	CHIP R	10	J	1/8W		R212			RK73GB2A100J	CHIP R	10	J	1/10W	
R132			RK73GB2A102J	CHIP R	1.0K	J	1/10W		R213,214			RK73GB2A563J	CHIP R	56K	J	1/10W	
133			RK73GB2A153J	CHIP R	15K	J	1/10W		R215			RK73GB2A181J	CHIP R	180	Ĵ	1/10W	
									R217							•	
R134			RK73GB2A104J	CHIP R	100K	J	1/10W		1			RK73GB2A104J	CHIP R	100K	J	1/10W	
3135,136			RK73GB2A332J	CHIP R	3.3K	J	1/10W		R218,219			RK73GB2A180J	CHIP R	18	J	1/10W	
R137			RK73GB2A101J	CHIP R	100	J	1/10W		R220			RK73GB2A102J	CHIP R	1.0K	J	1/10W	
R138,139			RK73GB2A682J	CHIP R	6.8K	J	1/10W		R221,222			RK73GB2A471J	CHIP R	470	J	1/10W	
R140,141			RK73GB2A181J	CHIP R	180	J	1/10W		R223			RK73GB2A180J	CHIP R	18	J	1/10W	
R142			RK73FB2B100J	CHIP R	10	J	1/8W		R224			RK73GB2A100J	CHIP R	10	J	1/10W	
R145			RK73GB2A100J	CHIP R	10	J	1/10W		R225			RK73GB2A180J	CHIP R	18	J	1/10W	
R146			RK73GB2A101J	CHIP R	100	J	1/10W		R226,227			RK73GB2A101J	CHIP R	100	J	1/10W	
R147			RK73GB2A271J	CHIP R	270	J	1/10W		R229			RK73GB2A101J	CHIP R	100	J	1/10W	
R149			RK73GB2A821J	CHIP R	820	J	1/10W		R230			RK73GB2A100J	CHIP R	10	J	1/10W	
R150			RK73FB2B101J	CHIP R	100	J	1/8W		R231			RK73GB2A680J	CHIP R	68	J	1/10W	
R151			RK73GB2A000J	CHIP R	0.0	J	1/10W		R232			RK73GB2A100J	CHIP R	10	Ĵ	1/10W	
R152			RK73GB2A0003	CHIP R	1.0K	J	1/10W	I	R233			RK73GB2A1003	CHIP R	68		1/10W	
IIJL			TIN/ SUDZATUZJ	OTHE N	1.UK	U	1/1000		11233			TIK/ SUBZAUOUJ	GI IIF N	υo	J	1/1000	
153			RK73GB2A101J	CHIP R	100	J	1/10W		R234,235			RK73GB2A101J	CHIP R	100	J	1/10W	
154			RK73GB2A000J	CHIP R	0.0	J	1/10W	 	R236,237			RK73GB2A180J	CHIP R	18	J	1/10W	
1155			RK73GB2A472J	CHIP R	4.7K	J	1/10W	I	R238			RK73GB2A181J	CHIP R	180	J	1/10W	
156			RK73GB2A680J	CHIP R	68	J	1/10W		R239			RK73GB2A100J	CHIP R	10	J	1/10W	
157			RK73GB2A151J	CHIP R	150	Ĵ	1/10W		R240			RK73GB2A471J	CHIP R	470	Ĵ	1/10W	
158			RK73GB2A101J	CHIP R	100	J	1/10W		R241			RK73GB2A103J	CHIP R	10K	J	1/10W	
1150			RK73GB2A000J	CHIP R	0.0	J	1/10W		R242,243			RK73GB2A470J	CHIP R	47	J	1/10W	
								 									
3160			RK73GB2A3R3J	CHIP R	3.3	J	1/10W		R244			RK73GB2A682J	CHIP R	6.8K	J	1/10W	
1161			RK73GB2A000J	CHIP R	0.0	J	1/10W		R245			RK73GB2A473J	CHIP R	47K	J	1/10W	
R164			RK73GB2A104J	CHIP R	100K	J	1/10W		R248			RK73GB2A332J	CHIP R	3.3K	J	1/10W	
165,166			RK73GB2A273J	CHIP R	27K	J	1/10W		R249			RK73GB2A222J	CHIP R	2.2K	J	1/10W	
R167			RK73GB2A000J	CHIP R	0.0	J	1/10W		R250			RK73GB2A103J	CHIP R	10K	J	1/10W	
R169			RK73GB2A103J	CHIP R	10K	J	1/10W	I	R254,255			RK73GB2A000J	CHIP R	0.0	J	1/10W	
1103			RK73GB2A103J	CHIP R	10K	J	1/10W		R256			RK73GB2A0003	CHIP R	1.5K	J	1/10W	
1171			RK73GB2A103J	CHIP R	10K	J	1/10W		R257,258			RK73GB2A152J	CHIP R	0.0	J	1/10W 1/10W	
R173			RK73GB2A271J	CHIP R	270	J	1/10W	I	R259			RK73GB2A222J	CHIP R	2.2K	J	1/10W	
174,175			RK73GB2A153J	CHIP R	15K	J	1/10W	I	R260			RK73GB2A103J	CHIP R	10K	J	1/10W	
176			RK73GB2A100J	CHIP R	10	J	1/10W		R261			RK73GB2A123J	CHIP R	12K	J	1/10W	
1177			RK73GB2A470J	CHIP R	47	J	1/10W	 	R262			RK73GB2A472J	CHIP R	4.7K	J	1/10W	
	1		RK73GB2A103J	CHIP R	10K	J	1/10W	I	R263			RK73GB2A4723	CHIP R	18K	J	1/10W	
178,179																	

PARTS LIST

Math	X UNIT (X55-30	90-1	0)														
Part	Ref. No.	Address		Parts No.		Descr	iption	ı	Desti- nation	Ref. No.	Address		Parts No.		Descri	iption	1	Desti- nation
PROS. BKXGERAMIN OPP 10X	R264			RK73GB2A152J	CHIP R	1.5K	J	1/10W		R364			RK73GB2A470J	CHIP R	47	J	1/10W	
READ	R265			RK73GB2A181J	CHIP R	180	J	1/10W		R366,367			RK73GB2A000J	CHIP R	0.0	J	1/10W	
RESS	R266			RK73GB2A332J	CHIP R	3.3K	J	1/10W		R368-370			RK73GB2A103J	CHIP R	10K	J	1/10W	
RECORD	R267			RK73GB2A103J	CHIP R	10K	J	1/10W		R371,372			RK73GB2A000J	CHIP R	0.0	J	1/10W	
PROPERTY RECORDANCIAL CHIPP 100K J 1/10W RS77 RECORDANCIAL CHIPP 100K J 1/10W RS79 RECORDANCIAL CHIPP 100K J 1/10W RS89 RECORDANCI	R268			RK73GB2A154J	CHIP R	150K	J	1/10W		R373			RK73GB2A103J	CHIP R	10K	J	1/10W	
PROJECT PROJECTION CHIPP 100K J 1,700W PROJECT PRO	R269			RK73GB2A470J	CHIP R	47	J	1/10W		R375,376			RK73GB2A105J	CHIP R	1.0M	J	1/10W	
PROFESSED CHIP R 15K	3270,271			RK73GB2A103J	CHIP R	10K	J	1/10W		R377			RK73GB2A000J	CHIP R	0.0	J	1/10W	
RECSEALARS CHIPP 10K	3272			RK73GB2A104J	CHIP R	100K	J	1/10W		R379			RK73GB2A101J	CHIP R	100	J	1/10W	
RECORD	3273			RK73GB2A152J	CHIP R	1.5K	J	1/10W		R380			RK73GB2A104J	CHIP R	100K	J	1/10W	
REFS REFS REFS REFS Dec	R274			RK73GB2A103J	CHIP R	10K	J	1/10W		R381			RK73GB2A223J	CHIP R	22K	J	1/10W	
PROPERTY	R275			RK73GB2A223J	CHIP R	22K	J	1/10W		R382-384			RK73GB2A104J	CHIP R	100K	J	1/10W	
RZ782P3	R276			RK73GB2A183J	CHIP R	18K	J	1/10W		R385			RK73GB2A101J	CHIP R	100	J	1/10W	
R280_281	R277			RK73GB2A103J	CHIP R	10K	J	1/10W		R388			RK73GB2A000J	CHIP R	0.0	J	1/10W	
BR36B2A371	3278,279			RK73GB2A152J	CHIP R	1.5K	J	1/10W		R390			RK73GB2A471J	CHIP R	470	J	1/10W	
RESS RK736B2A343J	R280,281			RK73GB2A103J	CHIP R	10K	J	1/10W		R391,392			RK73GB2A000J	CHIP R	0.0	J	1/10W	
R286 RC/3GB2A103J	R284			RK73GB2A471J	CHIP R	470	J	1/10W		R395			RK73GB2A101J	CHIP R	100	J	1/10W	
REGB	3285			RK73GB2A334J	CHIP R	330K	J	1/10W		R400,401			RK73GB2A000J	CHIP R	0.0	J	1/10W	
R288	3286			RK73GB2A103J	CHIP R	10K	J	1/10W		R403			RK73GB2A000J	CHIP R	0.0	J	1/10W	
R289	R287			RK73GB2A273J	CHIP R		J			R405			RK73GB2A153J	CHIP R	15K	J		
R291				RK73GB2A560J										1				
R291	R290			RK73GB2A332J	CHIP R	3.3K	J	1/10W		R417			RK73GB2A000.J	CHIP R	0.0	J	1/10W	
R232														1				
RZ39EZA1R3J								•					RK73GB2A151J	1			-	
RZ3GB2A273J														1				
R296-298														1				
R296-298	R295			RK73GB2A104J	CHIP R	100K	J	1/10W		R437			RK73GB2A183J	CHIP R	18K	J	1/10W	
REGOD RE7/36B2A001														1				
R205								•						1			-	
R307-310	306			RK73GB2A473J	CHIP R		J			R455			RK73GB2A104J	1		J		
RR73GB2A10J	307-310			RK73GB2A000J	CHIP R	0.0	J			R456			RK73GB2A101J	CHIP R	100	J	1/10W	
R221 RX73GB2A10J CHIP R	R311			RK73GB2A474J	CHIP R	470K	J	1/10W		D1,2			HSC119	DIODE				
R324 RK73GB2A10U	317-319			RK73GB2A100J	CHIP R	10	J	1/10W		D3-8			1SV283F	VARIABLE C	CAPACITA	ANCE	DIODE	
R326	321			RK73GB2A104J	CHIP R	100K	J	1/10W		D9,10		*	JDP4P02U	DIODE				
R326	323			RK73GB2A000J	CHIP R	0.0	J	1/10W		D11			KV1470-G	VARIABLE C	CAPACITA	ANCE	DIODE	
R328 RK736B2A00J CHIP R 0.0	324,325			RK73GB2A104J	CHIP R	100K	J	1/10W		D12			1SV283F	VARIABLE (CAPACITA	ANCE	DIODE	
R830	R326			RK73GB2A100J	CHIP R	10	J	1/10W		D13,14		*	JDP4P02U	DIODE				
R832	328			RK73GB2A000J	CHIP R	0.0	J	1/10W		D15,16			DAN235E	DIODE				
RX73GB2A104J	330			RK73GB2A104J	CHIP R	100K	J	1/10W		D17,18			MA3J742	DIODE				
R334 RK73GB2A101	332			RK73GB2A101J	CHIP R	100	J	1/10W		D19,20			DAN235E	DIODE				
R335 RK73GB2A104J CHIP R 100K J 1/10W IC5 LMC7101BIM5 MOS-IC R337 RK73GB2A102J CHIP R 1.0K J 1/10W IC6 LMC7101BIM5 MOS-IC R340-342 RK73GB2A102J CHIP R 1.0K J 1/10W IC7 ADP835BRUZ MOS-IC R343 RK73GB2A104J CHIP R 1.0K J 1/10W IC9 UPB1609GV BI-POLAR IC R344 RK73GB2A473J CHIP R 47K J 1/10W IC10 TK11230CMCL-G BI-POLAR IC R347,34B RK73GB2A472J CHIP R 47K J 1/10W IC11 ADF4111BCP7 MOS-IC R347,34B RK73GB2A470J CHIP R 47K J 1/10W IC11 ADF4111BCP7 MOS-IC R347,34B RK73GB2A470J CHIP R 47K J 1/10W IC11 ADF4111BCP7 MOS-IC R350 RK73GB2A470J CHIP R 47 J 1/10W	3333			RK73GB2A104J	CHIP R	100K	J	1/10W		D22,23			1SV283F	VARIABLE (CAPACITA	ANCE	DIODE	
R337 R338 R340-342 RK73GB2A102J RK73GB2A102J RK73GB2A102J RK73GB2A102J RK73GB2A102J RK73GB2A102J CHIP R CHIP R 1.0K J 1.0K J 1.0W J 1.10W J 1.10W J 1.10W IC10 IC3 IC3 IC3 IC3 IC3 IC3 IC3 IC3 IC3 IC3	R334			RK73GB2A101J	CHIP R	100	J	1/10W					TA75S01F-F					
R338 R873GB2A472J CHIP R 4.7K J 1/10W IC7 IC8 ★ AD9835BRUZ MOS-IC R340-342 RK73GB2A102J CHIP R 1.0K J 1/10W IC9 UPB1509GV BI-POLAR IC R343 RK73GB2A473J CHIP R 47K J 1/10W IC10 TK11230CMCL-G BI-POLAR IC R345,346 RK73GB2A472J CHIP R 4.7K J 1/10W IC11 ADF4111BCP7 MOS-IC R347,348 RK73GB2A470J CHIP R 100 J 1/10W IC12 TA31137FNG MOS-IC R349 RK73GB2A221J CHIP R 47 J 1/10W IC12 TA31137FNG MOS-IC R352 RK73GB2A221J CHIP R 220 J 1/10W IC14 * AD8051ART NJM78L05UA-ZB BI-POLAR IC R353 RK73GB2A470J CHIP R 47 J 1/10W IC25 NJM78L05UA-ZB NJM78M05DL1AZB NANLOGUE IC R359 <td>335</td> <td></td> <td></td> <td>RK73GB2A104J</td> <td>CHIP R</td> <td>100K</td> <td>J</td> <td>1/10W</td> <td></td> <td>IC5</td> <td></td> <td></td> <td>ADF4111BCP7</td> <td>MOS-IC</td> <td></td> <td></td> <td></td> <td></td>	335			RK73GB2A104J	CHIP R	100K	J	1/10W		IC5			ADF4111BCP7	MOS-IC				
R340-342 RK73GB2A102J CHIP R 1.0K J 1/10W IC8 ★ NJU6368PF1 MOS-IC R343 RK73GB2A104J CHIP R 100K J 1/10W IC9 UPB1509GV BI-POLAR IC R344 RK73GB2A473J CHIP R 47K J 1/10W IC10 TK11230CMCL-G BI-POLAR IC R345,346 RK73GB2A472J CHIP R 4.7K J 1/10W IC11 ADF4111BCP7 MOS-IC R347,348 RK73GB2A470J CHIP R 47 J 1/10W IC12 TA31137FNG MOS-IC R359 RK73GB2A473J CHIP R 47 J 1/10W IC15,16 NJM78I05DL1AZB BI-POLAR IC R357 RK73GB2A470J CHIP R 47 J 1/10W IC17-19 ★ NJM78M05DL1AZB ANALOGUE IC R358 RK73GB2A471J CHIP R 470 J 1/10W IC20 NJM4558E-ZB ANALOGUE IC R359 RK73GB2A221J CHIP R <td< td=""><td>337</td><td></td><td></td><td>RK73GB2A102J</td><td>CHIP R</td><td>1.0K</td><td>J</td><td>1/10W</td><td></td><td></td><td></td><td></td><td></td><td>MOS-IC</td><td></td><td></td><td></td><td></td></td<>	337			RK73GB2A102J	CHIP R	1.0K	J	1/10W						MOS-IC				
R343 R344 RK73GB2A104J CHIP R 100K J 1/10W RK73GB2A473J CHIP R 47K J 1/10W RK73GB2A472J CHIP R 4.7K J 1/10W RK73GB2A472J CHIP R 100 J 1/10W RK73GB2A470J CHIP R 100 J 1/10W RK73GB2A470J CHIP R 47 J 1/10W RX353 RK73GB2A470J CHIP R 47 J 1/10W RX353 RK73GB2A470J CHIP R 47 J 1/10W RX358 RK73GB2A470J CHIP R 48 LP LP LP R 48 LP LP LP R 48 LP LP LP LP R 48 LP				RK73GB2A472J	CHIP R	4.7K	J	1/10W					AD9835BRUZ	1				
R344 RK73GB2A473J CHIP R 47K J 1/10W IC10 IC10 ADF4111BCP7 MOS-IC MOS-IC <td>340-342</td> <td></td> <td></td> <td>RK73GB2A102J</td> <td>CHIP R</td> <td>1.0K</td> <td>J</td> <td>1/10W</td> <td></td> <td>IC8</td> <td></td> <td>*</td> <td>NJU6368PF1</td> <td>MOS-IC</td> <td></td> <td></td> <td></td> <td></td>	340-342			RK73GB2A102J	CHIP R	1.0K	J	1/10W		IC8		*	NJU6368PF1	MOS-IC				
R345,346 RK73GB2A472J CHIP R 4.7K J 1/10W IC11 IC12 ADF4111BCP7 MOS-IC						100K	J						UPB1509GV	1				
R347,348 RK73GB2A101J CHIP R 100 J 1/10W IC12 IC12 TA31137FNG MOS-IC BI-POLAR IC R350,351 RK73GB2A221J CHIP R 47 J 1/10W IC14 ★ AD8051ART ANALOGUE IC R352 RK73GB2A473J CHIP R 47K J 1/10W IC15,16 NJM78L05UA-ZB BI-POLAR IC R353 RK73GB2A470J CHIP R 47 J 1/10W IC20 NJM78M05DL1AZB ANALOGUE IC R357 RK73GB2A470J CHIP R 470 J 1/10W IC20 NJM4558E-ZB ANALOGUE IC R358 RK73GB2A200J CHIP R 10 J 1/10W IC22 NJM2604B332M MOS-IC R359 RK73GB2A682J CHIP R 220 J 1/10W IC23 BH2220FVM ANALOGUE IC R360 RK73GB2A682J CHIP R 6.8K J 1/10W IC26,27 NJM7808FA-ZB BI-POLAR IC R361 RK73GB2A181J	344			RK73GB2A473J	CHIP R	47K	J	1/10W					TK11230CMCL-G	BI-POLAR IC)			
R349					CHIP R	4.7K	J	1/10W						1				
R350,351 RK73GB2A221J CHIP R 220 J 1/10W R352 RK73GB2A473J CHIP R 47K J 1/10W R353 RK73GB2A470J CHIP R 47 J 1/10W R357 RK73GB2A471J CHIP R 470 J 1/10W R358 RK73GB2A471J CHIP R 470 J 1/10W R358 RK73GB2A410J CHIP R 10 J 1/10W R358 RK73GB2A221J CHIP R 10 J 1/10W R359 RK73GB2A221J CHIP R 220 J 1/10W R360 RK73GB2A682J CHIP R 6.8K J 1/10W R360 RK73GB2A682J CHIP R 3.3K J 1/10W R361 RK73GB2A332J CHIP R 3.3K J 1/10W R362 RK73GB2A181J CHIP R 180 J 1/10W R362 RK				RK73GB2A101J	CHIP R	100	J	1/10W					TA31137FNG	1				
R352 RK73GB2A473J CHIP R 47K J 1/10W IC15,16 IC17-19 ★ NJM78L05UA-ZB ANALOGUE IC NJM78D6D1AZB ANALOGUE IC NJM78D8DA32M MOS-IC NS59 RK73GB2A221J CHIP R 220 J 1/10W IC22 BH220FVM ANALOGUE IC NJM78D8FA-ZB BI-POLAR IC ANALOGUE IC R361 RK73GB2A332J CHIP R 3.3K J 1/10W IC26, Z7 ★ NJM2386ADL3-09 ANALOGUE IC ANALOGUE IC ANALOGUE IC	349			RK73GB2A470J	CHIP R	47	J	1/10W		IC13		*	AD607Z	BI-POLAR IO)			
R353 RK73GB2A470J CHIP R 47 J 1/10W IC17-19 ★ NJM78M05DL1AZB ANALOGUE IC R357 RK73GB2A471J CHIP R 470 J 1/10W IC20 IC20 NJM4558E-ZB ANALOGUE IC R358 RK73GB2A100J CHIP R 10 J 1/10W IC22 XC6204B332M MOS-IC R359 RK73GB2A221J CHIP R 220 J 1/10W IC23 BH2220FVM ANALOGUE IC R360 RK73GB2A682J CHIP R 6.8K J 1/10W IC24,25 2D NJM7808FA-ZB BI-POLAR IC R361 RK73GB2A332J CHIP R 3.3K J 1/10W IC26,27 * NJM2386ADL3-09 ANALOGUE IC R362 RK73GB2A181J CHIP R 180 J 1/10W IC28 * AD1582 ANALOGUE IC												*		1				
R357 RK73GB2A471J CHIP R 470 J 1/10W IC20 IC22 NJM4558E-ZB ANALOGUE IC MOS-IC R359 RK73GB2A221J CHIP R 220 J 1/10W IC23 BH2220FVM ANALOGUE IC RX660 RK73GB2A682J CHIP R 6.8K J 1/10W IC24,Z5 ZD NJM7808FA-ZB BI-POLAR IC RX73GB2A682J CHIP R 3.3K J 1/10W IC26,Z7 * NJM7808FA-ZB BI-POLAR IC RX73GB2A332J CHIP R 3.3K J 1/10W IC26,Z7 * NJM2386ADL3-09 ANALOGUE IC RX73GB2A181J CHIP R 180 J 1/10W IC28 * AD1582 ANALOGUE IC								•						1				
R358 RK73GB2A100J CHIP R 10 J 1/10W IC22 XC6204B332M MOS-IC R359 RK73GB2A221J CHIP R 220 J 1/10W IC23 BH2220FVM ANALOGUE IC R360 RK73GB2A682J CHIP R 6.8K J 1/10W IC24,25 2D NJM7808FA-ZB BI-POLAR IC R361 RK73GB2A332J CHIP R 3.3K J 1/10W IC26,27 ★ NJM2386ADL3-09 ANALOGUE IC R362 RK73GB2A181J CHIP R 180 J 1/10W IC28 ★ AD1582 ANALOGUE IC												*		1				
R359 RK73GB2A221J CHIP R 220 J 1/10W R360 RK73GB2A682J CHIP R 6.8K J 1/10W R361 RK73GB2A332J CHIP R 3.3K J 1/10W R362 RK73GB2A181J CHIP R 180 J 1/10W R362 RK73GB2A181J CHIP R 180 J 1/10W RX AD1582 ANALOGUE IC														1	IC			
R360 RK73GB2A682J CHIP R 6.8K J 1/10W IC24,25 2D NJM7808FA-ZB BI-POLAR IC RK73GB2A332J CHIP R 3.3K J 1/10W IC26,27 * NJM2386ADL3-09 ANALOGUE IC ANALOG	358			RK73GB2A100J	CHIP R	10	J	1/10W		IC22			XC6204B332M	MOS-IC				
R361 RK73GB2A332J CHIP R 3.3K J 1/10W C25,27 * NJM2386ADL3-09 ANALOGUE IC RX62 RK73GB2A181J CHIP R 180 J 1/10W IC28 * AD1582 ANALOGUE IC														1				
R362 RK73GB2A181J CHIP R 180 J 1/10W IC28 ★ AD1582 ANALOGUE IC								•			2D			1				
														1				
H363 BK73GB2∆100. CHIP.B 10 . 1/10W/ I I I C29 1 № N IM2722V/ RLPOLAR IC														1				
	363			RK73GB2A100J	CHIP R	10	J	1/10W	1	IC29		*	NJM2732V	BI-POLAR IC	;			

RX UNIT (X55-3090-10) TX UNIT (X56-3110-10)

Ref. No.	٠ الدائم	New	Down N-	Description:	Desti-	D-f N-	الدائم ٨	New	Dovida N				56-3110-10) Desti-
	Address	parts	Parts No.	Description	nation	Ref. No.	Address	parts			Descriptio	n	nation
IC30 IC31 IC32		*	AD7908BRU S24CS02AFJTBG NJM2732V	MOS-IC ROM IC BI-POLAR IC		C115-117 C120 C122			CC73GCH1H471J CK73GB1H103K CC73GCH1H471J	CHIP C CHIP C CHIP C	470PF 0.010UF 470PF	J K J	
IC33 IC35		*	LMC7101BIM5 LM50BIM3/NOPB	MOS-IC MOS-IC		C123 C126			CS77CA1ER47M CC73GCH1H471J	CHIP TNTL CHIP C	0.47UF 470PF	25WV J	
Q1 Q2		*	2SC5337 2SC4116(BL)F	TRANSISTOR TRANSISTOR		C133 C135			CC73GCH1H120J CC73GCH1H471J	CHIP C	12PF 470PF	J J	
Q3			2SC4617(R)	TRANSISTOR		C136			CC73GCH1H070B	CHIP C	7.0PF	В	
Q4 Q5			2SC4116(BL)F 2SC4617(R)	TRANSISTOR TRANSISTOR		C137 C138,139			CK73GB1H103K CC73GCH1H020B	CHIP C	0.010UF 2.0PF	K B	
06			2SC4116(BL)F	TRANSISTOR		C140,141			CC73GCH1H471J	CHIP C	470PF	J	
Q7,8 Q9-11			2SK508NV(K53) 2SC4116(BL)F	FET TRANSISTOR		C142 C143			CC73GCH1H080B CC73GCH1H090D	CHIP C	8.0PF 9.0PF	B D	
Q12			2SC4617(R)	TRANSISTOR		C145			CC73GCH1H080B	CHIP C	8.0PF	В	
Q13		*	2SA1832F	TRANSISTOR		C146			CC73GCH1H471J	CHIP C	470PF	J	
Q14,15 Q16,17			SSM3K15TE(F) 2SC3356-A(R24)	FET TRANSISTOR		C147 C148			CC73GCH1HR75B CC73GCH1H150J	CHIP C	0.75PF 15PF	B J	
Q18-20			RD01MUS1-T113	FET		C149			CK73GB1H103K	CHIP C	0.010UF	K	
Q21			2SC4725	TRANSISTOR		C151			CE32CL1V100M	CHIP EL	10UF	35WV	
Q22			2SC4617(R)	TRANSISTOR		C152			CC73GCH1H471J	CHIP C	470PF	J	
Q23 Q24			2SC3356-A(R24) 2SK508NV(K52)	TRANSISTOR FET		C153 C154		*	CC73GCH1H090D CS77CC1C330M	CHIP C CHIP TNTL	9.0PF 33UF	D 16WV	
025		*	SSM3J01F	FET		C156,157			CC73GCH1H471J	CHIP C	470PF	J	
Q26			SSM3K15TE(F)	FET		C158		*	CS77CC1C330M	CHIP TNTL	33UF	16WV	
0.27			2SC4116(BL)F	TRANSISTOR		C160			CC73GCH1H471J	CHIP C	470PF	J	
028,29			3SK317-E	FET		C161			CE32BM1E470M	CHIP EL	47UF	25WV	
030			2SC4617(R)	TRANSISTOR		C162,163			CC73GCH1H471J	CHIP C	470PF	J	
Q31 Q32		*	SSM3K15TE(F) SSM3J01F	FET FET		C164 C166			CC73GCH1H470J CC73GCH1H120J	CHIP C	47PF 12PF	J J	
033		,	2SC4725	TRANSISTOR		C167			CC73GCH1H100D	CHIP C	10PF	D	
034		*	2SA1832F	TRANSISTOR TRANSISTOR		C168 C169,170			CC73GCH1H120J CC73GCH1H471J	CHIP C	12PF 470PF	J J	
Q35,36 Q37			2SC4725 SSM3K15TE(F)	FET		C169,170			CK73GB1H103K	CHIP C	0.010UF	K	
038			2SC4725	TRANSISTOR		C172-174			CC73GCH1H471J	CHIP C	470PF	J	
Q39			2SC4617(R)	TRANSISTOR		C175			CC73GCH1H100D	CHIP C	10PF	D	
Q40			2SC4617(S)	TRANSISTOR		C176			CC73GCH1H471J	CHIP C	470PF	J	
Q50,51 Q52			SSM3K15TE(F) 2SJ484	FET FFT		C177-180 C181			CK73GB1H104K CC73GCH1H471J	CHIP C	0.10UF 470PF	K J	
Q53			2SC4725	TRANSISTOR		C182			CC73GCH1H180J	CHIP C	18PF	J	
Q56			SSM3K15TE(F)	FET		C183			CC73GCH1H020B	CHIP C	2.0PF	В	
Q57 Q58-61			DTA144EE SSM3K15TE(F)	DIGITAL TRANSISTOR		C186 C187		*	CC73GCH1H1R5B C93-0912-05	CHIP C	1.5PF 100UF	B M	
200 01			OSIVIOR TOTAL!			C188		"	CC73GCH1H471J	CHIP C	470PF	J	
A1			W02-1940-05	DBM		C189 C190,191			CC73GCH1H080B CC73GCH1H020B	CHIP C	8.0PF 2.0PF	B B	
			TV LINIT ()	(56-3110-10)		C192			CC73GCH1H471J	CHIP C	470PF	J	
Daca			-	-		C193,194			CC73GCH1H100C	CHIP C	10PF	C	
D202 D301			B30-2230-05 B30-2230-05	LED (YG) LED (YG)		C195 C196-198			CC73GCH1HR75B CC73GCH1H471J	CHIP C	0.75PF 470PF	B J	
D920-924		*	B30-2265-05	LED (FG)		C201			CC73GCH1H471J	CHIP C	470PF 470PF	J	
D925-932			B30-2171-05	LED (D)		C209			CK73GB1H102K	CHIP C	1000PF	K	
C102			CK73GB1E105K	CHIP C 1.0UF K		C210			CC73GCH1H180J	CHIP C	18PF	J	
C103-105			CC73GCH1H471J	CHIP C 470PF J		C211			CC73GCH1H100C	CHIP C	10PF	C	
C106,107			CK73GB1H103K	CHIP C 0.010UF K		C212,213			CK73GB1H102K	CHIP C	1000PF	K	
C108 C109			CC73GCH1H471J CK73GB1H104K	CHIP C 470PF J CHIP C 0.10UF K		C214			CC73GCH1H330J	CHIP C	33PF	J	
						C215			CK73GB1H102K	CHIP C	1000PF	K	
C110			CC73GCH1H471J	CHIP C 470PF J		C216			CK73GB1H103K	CHIP C	0.010UF	K	
C111,112 C113			CK73GB1H104K CC73GCH1H471J	CHIP C 0.10UF K CHIP C 470PF J		C217 C218			CC73GCH1H102J CC73GCH1H180J	CHIP C	1000PF 18PF	J J	
C113			CK73GB1H104K	CHIP C 0.10UF K		C218			CK73GB1H102K	CHIP C	1000PF	K	
			2 002	5 0 550i K		L			2.0000	3 0	. 55011	**	

PARTS LIST

Ref. No. Address parts Perts No. Description Destination Ref. No. Address parts Perts No. C220 C220 CK73GB1H104K CHIP C 0.10UF K C317 C317 CK73GB1H104K CE221 CK73GB1H102K CHIP C 1000PF K C318 C318 C523BM1E470M CK73GB1H104K CE224 CK73GB1H102K CHIP C 0.047UF K C329 CK73GB1H103K CK73GB1H103K CHIP C 0.047UF K C320 CK73GB1H103K CK73GB1H103K CHIP C 0.010UF K C321 C323-326 CK73GB1H103K CK73GB1H102K CHIP C 1000PF K C327 CK73GB1H103K CK73GB1H103K CHIP C 1000PF K C327 C328,329 ★ C93-0912-05 CC73GCH1H181J CC73GCH1H147UJ CK73GB1H103K CHIP C 0.010UF K C330 C331 CK73GB1H104K CK73GB1H104K CHIP C 1.00PF C C332 ★ CC73GCH1H47UJ CK73GB1H104K CHIP C 1.00PF C C332 ★ CC73GCH1H331J CX77CC1C100M CX73GB1H103K CHIP C 1.00PF K </th <th>CHIP C CHIP C</th> <th>0.10UF 47UF 0.10UF 0.010UF 470PF 0.010UF 470PF 0.010UF 47PF 0.10UF 330PF 10UF 0.010UF</th> <th>K 25WV K K J M J K</th> <th>Desti- nation</th>	CHIP C	0.10UF 47UF 0.10UF 0.010UF 470PF 0.010UF 470PF 0.010UF 47PF 0.10UF 330PF 10UF 0.010UF	K 25WV K K J M J K	Desti- nation
C221 CK73GB1H102K CHIP C 1000PF K C318 CE32BM1E470M C223 CK73GB1H102K CHIP C 1000PF K C319 CK73GB1H104K C224 CK73GB1H473K CHIP C 0.047UF K C320 CK73GB1H103K C225,226 CK73GB1H102K CHIP C 1000PF K C321 CK73GB1H103K C227 CK73GB1H102K CHIP C 0.010UF K C327 CK73GB1H103K C228 CK73GB1H102K CHIP C 1000PF K C327 CC73GCH1H181J C229 CC73GCH1H020C CHIP C 2.0PF C C328,329 ★ C93-0912-05 C230 CC73GCH1H120J CHIP C 12PF J C330 CX73GCH1H470J CX73GCH1H470J C231 CK73GB1H103K CHIP C 0.010UF K C332 ★ CC73GCH1H470J C233 CK73GB1H102K CHIP C 1.0PF C C332 CX73GCH1H4131J C234 CK73GB1H102K	CHIP EL CHIP C CHIP TNTL CHIP C CHIP C	47UF 0.10UF 0.010UF 470PF 0.010UF 180PF 100UF 47PF 0.10UF 330PF 10UF	25WV K K J K J M J K	
C223 CK73GB1H102K CHIP C 1000PF K C319 CK73GB1H104K CK73GB1H104K CK73GB1H103K CCHIP C 0.047UF K C320 CK73GB1H103K CK73GB1H103K CCHIP C 1000PF K C321 CK73GB1H103K CC73GCH1H471J C227 CK73GB1H102K CHIP C 0.010UF K C323-326 CK73GB1H103K CC73GCH1H181J CC73GCH1H181J CC73GCH1H181J CC73GCH1H181J CC73GCH1H181J CC73GCH1H120J CHIP C 2.0PF C C328,329 * C93-0912-05 CC73GCH1H470J CK73GB1H103K CHIP C 0.010UF K C330 CX73GCH1H470J CK73GB1H104K C233 CC73GCH1H010C CHIP C 0.010UF K C332 * CC73GCH1H331J C234 CK73GB1H102K CHIP C 1.0PF C C332 * CX73GCH1H331J C235 CK73GB1H103K CHIP C 0.010UF K C334 CX73GB1H103K CK73GB1H103K C237 CK73GB1H102K CHIP C 1.000PF	CHIP C CHIP TNTL CHIP C CHIP C	0.10UF 0.010UF 470PF 0.010UF 180PF 100UF 47PF 0.10UF 330PF 10UF	K K J M J K	
C224 CK73GB1H473K CHIP C 0.047UF K C320 CK73GB1H103K CC73GCH1H471J C227 CK73GB1H103K CHIP C 1000PF K C321 CK73GB1H103K CC73GCH1H471J C228 CK73GB1H102K CHIP C 1000PF K C327 CC73GCH1H181J CC73GCH1H181J CC73GCH1H102U CHIP C 2.0PF C C328,329 * C93-0912-05 CC73GCH1H470J CC73GCH1H470J CC73GCH1H470J CC73GCH1H470J CC73GCH1H470J CC73GCH1H470J CK73GB1H104K CC73GCH1H470J CK73GB1H104K CC73GCH1H470J CK73GB1H104K CC73GCH1H470J CK73GB1H104K CK73GB1H104K CC73GCH1H470J CC73GCH1H470J CK73GB1H104K CC73GCH1H470J<	CHIP C CHIP TNTL CHIP C CHIP C	0.010UF 470PF 0.010UF 180PF 100UF 47PF 0.10UF 330PF 10UF	K J M J K	
C225,226 CK73GB1H102K CHIP C 1000PF K C321 CC73GCH1H471J C227 CK73GB1H103K CHIP C 0.010UF K C323-326 CK73GB1H103K CC73GCH1H02K CHIP C 1000PF K C327 CC73GCH1H181J CC73GCH1H181J CC73GCH1H181J C328,329 * C93-0912-05 C330 CC73GCH1H470J CK73GB1H104K CK73GB1H104K CC73GCH1H470J CK73GB1H104K CK73GB1H104K CK73GB1H104K CK73GB1H104K CK73GB1H104K CK73GB1H104K	CHIP C CHIP TNTL CHIP C CHIP C	470PF 0.010UF 180PF 100UF 47PF 0.10UF 330PF 10UF	J K J K	
C227 CK73GB1H103K CHIP C 0.010UF K C323-326 CK73GB1H103K CK73GB1H103K CC73GCH1H103K CC73GCH1H103K CC73GCH1H181J C328,329 * C93-0912-05 C236 C236 C236 * C93-0912-05 C230 C236 C231 CC73GCH1H120J CHIP C 12PF J C330 C330 CC73GCH1H470J CK73GB1H103K CHIP C 0.010UF K C331 CX73GB1H104K CX73GB1H104K C233 CC73GCH1H010C CHIP C 1.0PF C C332 CC73GCH1H331J CX73GB1H103K CHIP C 1.00PF K C333 * CS77CC1C100M CX73GB1H103K CK73GB1H103K CK73GB1H103K CK73GB1H103K CK73GB1H103K CK73GB1H103K CK73GB1H102K CK73G	CHIP C CHIP TNTL CHIP C CHIP C	0.010UF 180PF 100UF 47PF 0.10UF 330PF 10UF	K J M J K	
C228 CK73GB1H102K CHIP C 1000PF K C327 CC73GCH1H181J C229 CC73GCH1H020C CHIP C 2.0PF C C328,329 ★ C93-0912-05 C230 CC73GCH1H120J CHIP C 12PF J C330 C73GCH1H70J CK73GB1H104K C231 CC73GCH1H03K CHIP C 0.010UF K C331 CK73GB1H104K C233 CC73GCH1H010C CHIP C 1.0PF C C332 CC73GCH1H331J C234 CK73GB1H102K CHIP C 1000PF K C333 ★ CS77CC1C100M C235 CK73GB1H103K CHIP C 0.010UF K C334 CK73GB1H103K C237 CK73GB1H102K CHIP C 1000PF K C335 CK73GB1H102K	CHIP C CHIP C CHIP C CHIP C CHIP C CHIP C CHIP TNTL CHIP C CHIP C	180PF 100UF 47PF 0.10UF 330PF 10UF	J M J K	
C228 CK73GB1H102K CHIP C 1000PF K C327 CC73GCH1H181J C229 CC73GCH1H020C CHIP C 2.0PF C C328,329 ★ C93-0912-05 C230 CC73GCH1H120J CHIP C 12PF J C330 C73GCH1H70J CK73GB1H104K C231 CC73GCH1H03K CHIP C 0.010UF K C331 CK73GB1H104K C233 CC73GCH1H010C CHIP C 1.0PF C C332 CC73GCH1H331J C234 CK73GB1H102K CHIP C 1000PF K C333 ★ CS77CC1C100M C235 CK73GB1H103K CHIP C 0.010UF K C334 CK73GB1H103K C237 CK73GB1H102K CHIP C 1000PF K C335 CK73GB1H102K	CHIP C CHIP C CHIP C CHIP C CHIP TNTL CHIP C CHIP C	100UF 47PF 0.10UF 330PF 10UF	M J K	
C229 CC73GCH1H020C CHIP C 2.0PF C C328,329 * C93-0912-05 C230 CC73GCH1H120J CHIP C 12PF J C330 C330 CK73GB1H104K C233 CC73GCH1H010C CHIP C 0.010UF K C332 CC73GCH1H331J C234 CK73GB1H102K CHIP C 1000PF K C333 * CS77CC1C100M C235 CK73GB1H103K CHIP C 0.010UF K C334 CK73GB1H103K C237 CK73GB1H102K CHIP C 1000PF K C335 CK73GB1H102K	CHIP C CHIP C CHIP C CHIP TNTL CHIP C CHIP C	47PF 0.10UF 330PF 10UF	J K	
C230 CC73GCH1H120J CK73GB1H103K CHIP C CHIP C 12PF 0.010UF J 0.010UF C330 C331 CC73GCH1H470J CK73GB1H104K C233 CC73GCH1H010C CK73GB1H102K CHIP C CHIP C 1.0PF 1.00PF C C332 C333 CC73GCH1H331J C333 CC73GCH1H331J CS77CC1C100M CK73GB1H103K CK73GB1H103K CK73GB1H103K CK73GB1H102K CK73GB1H103K CK73GB1H102K CK73GB1H103K CK73GB1H102K	CHIP C CHIP C CHIP TNTL CHIP C CHIP C	0.10UF 330PF 10UF	K	
C231 CK73GB1H103K CHIP C 0.010UF K C331 CK73GB1H104K C233 CC73GCH1H010C CHIP C 1.0PF C C332 CC73GCH1H331J C234 CK73GB1H102K CHIP C 1000PF K C333 * CS77CC1C100M C235 CK73GB1H103K CHIP C 0.010UF K C334 CK73GB1H103K C237 CK73GB1H102K CHIP C 1000PF K C335 CK73GB1H102K	CHIP C CHIP C CHIP TNTL CHIP C CHIP C	0.10UF 330PF 10UF	K	
C234 CK73GB1H102K CHIP C 1000PF K C333 * CS77CC1C100M C235 CK73GB1H103K CHIP C 0.010UF K C334 CK73GB1H103K C237 CK73GB1H102K CHIP C 1000PF K C335 CK73GB1H102K	CHIP TNTL CHIP C CHIP C	10UF	J	
C234 CK73GB1H102K CHIP C 1000PF K C333 * CS77CC1C100M C235 CK73GB1H103K CHIP C 0.010UF K C334 CK73GB1H103K C237 CK73GB1H102K CHIP C 1000PF K C335 CK73GB1H102K	CHIP TNTL CHIP C CHIP C	10UF	J	
C235 CK73GB1H103K CHIP C 0.010UF K C334 CK73GB1H103K C237 CK73GB1H102K CHIP C 1000PF K C335 CK73GB1H102K	CHIP C CHIP C			
C237 CK73GB1H102K CHIP C 1000PF K C335 CK73GB1H102K	CHIP C		16WV	
			K	
	I CHIP C	1000PF	K	
C240 CC73GCH1H221J CHIP C 220PF J C336 CC73GCH1H180J	011111 0	18PF	J	
C241 CC73GCH1H820J CHIP C 82PF J C337 CK73GB1H103K	CHIP C	0.010UF	K	
C242 CC73GCH1H330J CHIP C 33PF J C338 * CS77CB21A470M	CHIP TNTL	47UF	10WV	
C243,244 CC73GCH1H471J CHIP C 470PF J C339 CC73GCH1H221J	CHIP C	220PF	J	
C245 CC73GCH1H470J CHIP C	CHIP C	0.010UF	K	
C246,247 CC73GCH1H471J CHIP C 470PF J C341 CK73GB1H104K	CHIP C	0.01001 0.10UF	K	
C248 CC73GCH1H151J CHIP C 150PF J C342 * CS77CB21A470M	CHIP TNTL	47UF	10WV	
C249 C343,344 CK73GB1H103K	CHIP C	0.010UF	K	
C250 CK73GB1H104K CHIP C 0.10UF K C345 CK73GB1H104K	CHIP C	0.10UF	K	
C251,252 CK73GB1H103K CHIP C 0.010UF K C346,347 CK73GB1H103K	CHIP C	0.010UF	K	
C253 CE32CL1V100M CHIP EL 10UF 35WV C348 CC73GCH1H221J	CHIP C	220PF	J	
C254	CHIP C	10PF	D	
C254 CK73GB1H104K CHIP C 0.10UF K C349,350 CC73GCH1H100D				
C255,256 CK73GB1H103K CHIP C	CHIP TNTL	10UF	16WV	
C257-260 CK73GB1H104K CHIP C	CHIP C	18PF	J	
C263 CC73GCH1H390J CHIP C 39PF J C353 CK73GB1H103K	CHIP C	0.010UF	K	
C265 CC73GCH1H680J CHIP C 68PF J C354 CC73GCH1H331J	CHIP C	330PF	J	
C267 CC73GCH1H390J CHIP C 39PF J C355 CC73GCH1H470J	CHIP C	47PF	J	
C269-272 CK73GB1H104K CHIP C 0.10UF K C356 CK73GB1H103K	CHIP C	0.010UF	K	
C275 CC73GCH1H471J CHIP C 470PF J C357 CC73GCH1H181J	CHIP C	180PF	J	
C276 CC73GCH1H271J CHIP C 270PF J C358 CK73GB1H104K	CHIP C	0.10UF	K	
C277 CC73GCH1H471J CHIP C	CHIP C	10PF	D	
C278 CC73GCH1H391J CHIP C 390PF J C360 CK73GB1H103K	CHIP C	0.010UF	K	
C279 CC73GCH1H471J CHIP C 470PF J CS61 CK73GB1H104K	CHIP C	0.10UF	K	
C280 CC73GCH1H271J CHIP C 270PF J CG362 CC73GCH1H471J	CHIP C	470PF	J	
C281 CC73GCH1H471J CHIP C 470PF J C363,364 CK73GB1H103K	CHIP C	0.010UF	K	
C282-285 CK73GB1H104K CHIP C 0.10UF C365 CC73GCH1H471J	CHIP C	470PF	J	
C286 CK73GB1H103K CHIP C 0.010UF K C366 CC73GCH1H100D	CHIP C	10PF	D	
C287 CK73GB1H103K CHIP C	CHIP C	0.010UF	K	
C288 CS77CA1C2R2M CHIP TNTL 2.2UF 16WV C369,370 CK73GB1H103K	CHIP C	0.010UF	K	
	CHIP C	18PF	J	
C290 * CS77CB21A470M CHIP TNTL	CHIP C	47PF	J	
5 5 5 5 5 1.	3	.,,,,	Ü	
C301 CS77CA1C2R2M CHIP TNTL 2.2UF 16WV C375 CK73GB1H103K	CHIP C	0.010UF	K	
C302 C73GCH1H100D CHIP C 10PF D C376 C73GCH1H471J	CHIP C	470PF	J	
C303 CK73GB1H103K CHIP C 0.010UF K C378 CK73FB1C105K	CHIP C	1.0UF	K	
C304 C379 C73GCH1H331J CHIP C 330PF J C379 CK73GB1H103K	CHIP C	0.010UF	K	
C305 CC73GCH1H180J CHIP C 18PF J C381 CK73GB1H103K	CHIP C	0.010UF	K	
C306 CK73FB0J106K CHIP C 10UF K C382 CC73GCH1H221J	CHIBC	22005		
	CHIP C	220PF	J	
C307 CK73GB1H104K	CHIP C	330PF	J	
C308	CHIP C	180PF	J	
C309 CC73GCH1H331J CHIP C	CHIP EL	10UF	35WV	
C310 CK73FB0J106K CHIP C 10UF K CS87 CK73GB1H104K	CHIP C	0.10UF	K	
C311	CHIP C	470PF	J	
C312 CK73GB1H103K CHIP C	CHIP C	1000PF	K	
C313 CC73GCH1H121J CHIP C 120PF J C390 CK73GB1H222K	CHIP C	2200PF	K	
C314,315 CK73GB1H103K CHIP C	CHIP C	100UF	M	
C316 CC73GCH1H100D CHIP C	CHIP C	10001 10PF	D	
5 5	01.111.0	1011		

Ref. No.	Address	New	Parts No.		Descriptio	n	Dești-	Ref. No.	Address	New			Descriptio	ın	Dești-
Kel. No.	Address	parts	Parts No.		Descriptio	1	nation		Address	parts	Faits No.		Descriptio	on	nation
C401			CK73GB1H103K	CHIP C	0.010UF			C511			CC73GCH1H470J	CHIP C	47PF	J	
C402,403			CK73GB1H104K	CHIP C	0.10UF	K		C512			CC73GCH1H471J	CHIP C	470PF	J	
C404			CK73GB1H103K	CHIP C	0.010UF	K		C513			CC73GCH1H010C	CHIP C	1.0PF	С	
C405			CC73GCH1H471J	CHIP C	470PF	J		C514			CC73GCH1H121J	CHIP C	120PF	J	
C406-412			CK73GB1H103K	CHIP C	0.010UF	K		C514			CC73GCH1H030C	CHIP C	3.0PF	C	
U400-41Z			CK/3GBIHIU3K	CHIP C	0.0100F	N.		6515			66/3661110306	CHIP C	3.077	C	
C413			CC73GCH1H471J	CHIP C	470PF	J		C516,517			CK73GB1H104K	CHIP C	0.10UF	K	
C414-416			CK73GB1H103K	CHIP C	0.010UF	K		C519			CK73GB1H104K	CHIP C	0.10UF	K	
C419			CK73FB0J106K	CHIP C	10UF	K		C520			CC73GCH1H221J	CHIP C	220PF	J	
				1										-	
C420			CK73GB1H103K	CHIP C	0.010UF	K		C521-527			CK73GB1H104K	CHIP C	0.10UF	K	
C422			CK73GB1H103K	CHIP C	0.010UF	K		C529-532			CK73GB1H104K	CHIP C	0.10UF	K	
C423			CE32BM1E470M	CHIP EL	47UF	25WV		C533			CC73GCH1H471J	CHIP C	470PF	J	
C425			CC73GCH1H181J	CHIP C	180PF	J		C534-537			CK73GB1H104K	CHIP C	0.10UF	K	
				1		-									
C427			CC73GCH1H470J	CHIP C	47PF	J		C538			CC73GCH1H471J	CHIP C	470PF	J	
C429			CC73GCH1H331J	CHIP C	330PF	J		C539			CK73GB1H104K	CHIP C	0.10UF	K	
C430			CC73GCH1H180J	CHIP C	18PF	J		C541,542			CC73GCH1H100D	CHIP C	10PF	D	
0400			007000114110041	CLUD C	22005	.		0540.547			01/70004114041/	CLUD C	0.10115	V	
C433			CC73GCH1H221J	CHIP C	220PF	J		C543-547			CK73GB1H104K	CHIP C	0.10UF	K	
C435			CK73GB1H104K	CHIP C	0.10UF	K		C548		1	CC73GCH1H471J	CHIP C	470PF	J	
C436			CS77BA1E010M	CHIP TNTL	1UF	25WV	l	C549-552			CK73GB1H104K	CHIP C	0.10UF	K	
C437			CK73GB1H103K	CHIP C	0.010UF	K	l	C554-556			CK73GB1H104K	CHIP C	0.10UF	K	
C439-443			CK73GB1H103K	CHIP C	0.010UF	K		C557			CC73GCH1H030C	CHIP C	3.0PF	C	
C445			CS77CA1V0R1M	CHIP TNTL	0.1UF	35WV	l	C558,559		1	CK73GB1H104K	CHIP C	0.10UF	K	
C446			CK73FB1E473K	CHIP C	0.047UF	K		C562		1	CK73GB1H104K	CHIP C	0.10UF	K	
C447			CK73FB0J106K	CHIP C	10UF	K		C563			CC73GCH1H121J	CHIP C	120PF	J	
C448			CK73GB1H104K	CHIP C	0.10UF	K		C564			CC73GCH1H470J	CHIP C	47PF	J	
C449			CK73GB1H104K	CHIP C	0.010UF	K		C565			CK73GB1H104K	CHIP C	0.10UF	K	
31.0			0.0000	0	0.01001						011700311110111	0	0.1001		
C451			CK73GB1H104K	CHIP C	0.10UF	K		C568			CC73GCH1H221J	CHIP C	220PF	J	
C452			CK73FB0J106K	CHIP C	10UF	K		C569			CC73GCH1H471J	CHIP C	470PF	J	
C453			CC73GCH1H181J	CHIP C	180PF	J		C570			CC73GCH1H010C	CHIP C	1.0PF	С	
C454			CC73GCH1H470J	CHIP C	47PF	J		C571			CC73GCH1H331J	CHIP C	330PF	J	
C455			CK73GB1H103K	CHIP C	0.010UF	K		C573,574			CC73GCH1H331J	CHIP C	330PF	J	
														•	
C456			CC73GCH1H331J	CHIP C	330PF	J		C575,576			CC73GCH1H180J	CHIP C	18PF	J	
C457			CC73GCH1H181J	CHIP C	180PF	J		C577,578			CC73GCH1H331J	CHIP C	330PF	J	
C458			CC73GCH1H470J	CHIP C	47PF	J		C601-605			CK73GB1H104K	CHIP C	0.10UF	K	
C459			CC73GCH1H180J	CHIP C	18PF	J		C610			CK73GB1H104K	CHIP C	0.10UF	K	
C459			CC73GCH1H1803	CHIP C	330PF	J		C612,613			CK73GB1H104K	CHIP C	0.10UF	K	
0 100			007000111110010	Orm o	00011			0012,010			OK/OGB/IIIO IK	01111 0	0.1001	K	
C461			CC73GCH1H221J	CHIP C	220PF	J		C614			CC73GCH1H100D	CHIP C	10PF	D	
C462			CC73GCH1H180J	CHIP C	18PF	J		C616			CC73GCH1H270J	CHIP C	27PF	J	
C463			CK73GB1H104K	CHIP C	0.10UF	K		C619			CC73GCH1H100D	CHIP C	10PF	D	
C464,465			CK73GB1H103K	CHIP C	0.010UF			C620-623			CK73GB1H104K	CHIP C	0.10UF	K	
				1										N.	
C466			CC73GCH1H221J	CHIP C	220PF	J		C624-627			CC73GCH1H560J	CHIP C	56PF	J	
C467			CK73FB1C105K	CHIP C	1.0UF	K		C628-631			CK73GB1H104K	CHIP C	0.10UF	K	
C468,469			CK73GB1H103K	CHIP C	0.010UF	K	l	C632-634			CK73GB1H103K	CHIP C	0.010UF	K	
			CK73GB1H104K	1			l			1					
C470				CHIP C	0.10UF	K	l	C635,636			CK73GB1H104K	CHIP C	0.10UF	K	
C471-482			CK73GB1H103K	CHIP C	0.010UF	K	l	C637			CK73GB1H103K	CHIP C	0.010UF		
C483-486			CK73GB1H104K	CHIP C	0.10UF	K		C638			CC73GCH1H470J	CHIP C	47PF	J	
C487			CK73GB1H103K	CHIP C	0.010UF	K		C639			CC73GCH1H180J	CHIP C	18PF	J	
				1			l							-	
C488-490			CK73GB1H104K	CHIP C	0.10UF	K		C640		1	CC73GCH1H181J	CHIP C	180PF	J	
C491			CC73GCH1H470J	CHIP C	47PF	J	l	C641		1	CC73GCH1H331J	CHIP C	330PF	J	
C492-495			CK73GB1H104K	CHIP C	0.10UF	K	l	C642		1	CC73GCH1H221J	CHIP C	220PF	J	
C496			CC73GCH1H221J	CHIP C	220PF	J		C643			CC73GCH1H471J	CHIP C	470PF	J	
C407			CV79CD111104V	CHIB C	0.10115	v		CGAE			0072001111474	CLUD C	470DF	1	
C497			CK73GB1H104K	CHIP C	0.10UF	K	l	C645			CC73GCH1H471J	CHIP C	470PF	J	
C498			CC73GCH1H121J	CHIP C	120PF	J	l	C656,657		1	CK73GB1H103K	CHIP C	0.010UF	K	
C499			CK73GB1H104K	CHIP C	0.10UF	K	l	C658			CK73GB1H104K	CHIP C	0.10UF	K	
C500			CC73GCH1H471J	CHIP C	470PF	J	l	C659,660			CK73GB1H103K	CHIP C	0.010UF	K	
C501,502			CK73GB1H104K	CHIP C	0.10UF	K		C661			CK73FB0J106K	CHIP C	10UF	K	
								I							
C503			CC73GCH1H470J	CHIP C	47PF	J	l	C662,663		1	CK73GB1H104K	CHIP C	0.10UF	K	
C504			CC73GCH1H010C	CHIP C	1.0PF	С	l	C703			CK73GB1H104K	CHIP C	0.10UF	K	
2505,506			CK73GB1H104K	CHIP C	0.10UF	K	l	C704		1	CK73FB0J106K	CHIP C	10UF	K	
C507,508			CC73GCH1H331J	CHIP C	330PF	J	l	C707			CK73GB1H102K	CHIP C	1000PF	K	
C509,510				CHIP C		K	l	C707		1		CHIP C			
	1 1		CK73GB1H104K	UNIF C	0.10UF	IV.	l	6/00		1	CK73GB1H104K	CHIP C	0.10UF	K	

PARTS LIST

C709 C710 C711 C712,713 C714	Address	New parts	Parts No.		Description	n	Desti-	Ref. No.		New	Parts No.	Description	Desti-
C710 C711 C712,713 C714							nation	1101.110.	Address	parts	T unto 140.	Bootipion	nation
C711 C712,713 C714			CE32CL1V100M	CHIP EL	10UF	35WV		C933,934		*	CS77CA1A1R5M	CHIP TNTL 1.5UF 10WV	
C712,713 C714			CK73GB1H104K	CHIP C	0.10UF	K		C935,936			CK73GB1H104K	CHIP C 0.10UF K	
C714			CK73GB1H103K	CHIP C	0.010UF	K		C937			CK73GB1H103K	CHIP C 0.010UF K	
			CC73GCH1H471J	CHIP C	470PF	J		C938			CK73FB0J106K	CHIP C 10UF K	
i i			CK73GB1H103K	CHIP C	0.010UF	K		C939			CK73GB1H102K	CHIP C 1000PF K	
C715			CE32CL1V100M	CHIP EL	10UF	35WV		C941			CK73GB1H102K	CHIP C 1000PF K	
C716			CK73GB1H103K	CHIP C	0.010UF	K		C943			CK73GB1H104K	CHIP C 0.10UF K	
C717,718			CC73GCH1H471J	CHIP C	470PF	J		C960-965			CK73GB1H104K	CHIP C 0.10UF K	
C719			CK73GB1H103K	CHIP C	0.010UF	K							
C720,721			CE32CL1V100M	CHIP EL	10UF	35WV		CN102-121		*	E23-1280-05	TERMINAL	
0720,721			02020217100171	OTTIL EE	1001	00111		CN403		•	E04-0193-05	PIN SOCKET	
C722			CK73GB1H103K	CHIP C	0.010UF	K		CN405,406			E04-0193-05	PIN SOCKET	
C723,724			CC73GCH1H471J	CHIP C	470PF	J		CN403,400			E04-0154-05	PIN SOCKET	
C725,724			CK73GB1H103K	CHIP C	0.010UF	K		CN407 CN408			E04-0193-05	PIN SOCKET	
C801-803			CK73GB1H103K	CHIP C	0.01001 0.10UF	K		G11400			L04-0133-03	I IN SOCKLI	
					470PF	J		CNI001			E41 2072 0E	DINI ACCV	
C804			CC73GCH1H471J	CHIP C	4/UPF	J		CN801			E41-2672-05	PIN ASSY	
0005			01/700004114041/	OLUD O	0.40115	1/		CN802			E04-0193-05	PIN SOCKET	
C805			CK73GB1H104K	CHIP C	0.10UF	K		CN803		*	E40-6822-05	FLAT CABLE CONNECTOR	
C806			CE32CL1V100M	CHIP EL	10UF	35WV		CN804-806			E40-6656-05	PIN ASSY	
C807			CK73FB1C105K	CHIP C	1.0UF	K		CN807			E41-2671-05	PIN ASSY	
C808,809			CK73GB1H104K	CHIP C	0.10UF	K							
C810			CC73GCH1H471J	CHIP C	470PF	J		CN920		*	E41-1493-05	PIN ASSY	
								CN921			E40-6656-05	PIN ASSY	
C811			CK73GB1H104K	CHIP C	0.10UF	K		CN923		*	E41-1483-05	PIN ASSY	
C812			CK73GB1H103K	CHIP C	0.010UF	K		CN960		*	E41-1493-05	PIN ASSY	
C813			CC73GCH1H471J	CHIP C	470PF	J							
C814			CK73GB1H104K	CHIP C	0.10UF	K		E100		*	F10-3081-04	SHIELDING CASE	
C816			CE32CL1V100M	CHIP EL	10UF	35WV							
								CF201		*	L72-1029-05	CERAMIC FILTER	
C817			CK73GB1H103K	CHIP C	0.010UF	K		CF601		*	L72-1019-05	CERAMIC FILTER	
C818			CE32CL1V100M	CHIP EL	10UF	35WV		L105,106			L41-1595-33	SMALL FIXED INDUCTOR (1.5UH)	
C819			CK73GB1H102K	CHIP C	1000PF	K		L108		*	L34-4871-05	AIR-CORE COIL	
C820,821			CK73GB1H104K	CHIP C	0.10UF	K		L109-111			L41-1595-33	SMALL FIXED INDUCTOR (1.5UH)	
C822			CK73GB1H103K	CHIP C	0.010UF	K							
								L112,113			L41-2775-33	SMALL FIXED INDUCTOR (0.027UH)	
C823,824			CC73GCH1H471J	CHIP C	470PF	J		L116-118			L41-2775-33	SMALL FIXED INDUCTOR (0.027UH)	
C825			CK73GB1H103K	CHIP C	0.010UF	K		L119			L41-1575-33	SMALL FIXED INDUCTOR (0.015UH)	
C826			CC73GCH1H471J	CHIP C	470PF	J		L120			L41-2275-33	SMALL FIXED INDUCTOR (0.022UH)	
C827			CK73GB1H103K	CHIP C	0.010UF	K		L121-124			L41-1005-33	SMALL FIXED INDUCTOR (10UH)	
C848		*	C92-0904-05	OS-CON	22UF	35WV		L121-124			L41-1003-33	SWALL TIXED INDUCTOR (1001)	
U040		~	032-0304-03	03-0014	2201	33444		L125,126			L41-1595-33	SMALL FIXED INDUCTOR (1.5UH)	
C850			CK73GB1H103K	CHIP C	0.010UF	K		L123,120		*	L34-4871-05	AIR-CORE COIL	
C856		*	CE32AU1E100M	CHIP EL	10UF	25WV		L120 L129-131		*	L41-1595-33	SMALL FIXED INDUCTOR (1.5UH)	
		*						1					
C857			CK73GB1H103K	CHIP C	0.010UF	K		L203			L41-3375-33	SMALL FIXED INDUCTOR (0.033UH)	
C858,859			CC73GCH1H471J	CHIP C	470PF	J		L204,205			L41-5675-33	SMALL FIXED INDUCTOR (0.056UH)	
C860			CK73GB1H103K	CHIP C	0.010UF	K		1007			L 44 400E CC	ON ANTI- FIVED INIDUSTOR (2.4111)	
0074			01/700041::/	OLUB C	100			L207			L41-1085-33	SMALL FIXED INDUCTOR (0.1UH)	
C871-873			CK73GB1H102K	CHIP C	1000PF	K		L208			L41-6875-33	SMALL FIXED INDUCTOR (0.068UH)	
C874			CK73GB1H103K	CHIP C	0.010UF	K		L210		١. ا	L41-1595-33	SMALL FIXED INDUCTOR (1.5UH)	
C875			CK73GB1H104K	CHIP C	0.10UF	K		L211		*	L41-1895-33	SMALL FIXED INDUCTOR (1.8UH)	
C876-878			CC73GCH1H471J	CHIP C	470PF	J		L212,213			L41-1005-33	SMALL FIXED INDUCTOR (10UH)	
C879			CE32CL1V100M	CHIP EL	10UF	35WV							
								L214,215			L41-4705-33	SMALL FIXED INDUCTOR (47UH)	
C882			CC73GCH1H180J	CHIP C	18PF	J		L216,217			L41-2295-33	SMALL FIXED INDUCTOR (2.2UH)	
C883			CC73GCH1H330J	CHIP C	33PF	J		L218			L41-6885-33	SMALL FIXED INDUCTOR (0.68UH)	
C884			CC73GCH1H180J	CHIP C	18PF	J		L219			L41-6895-33	SMALL FIXED INDUCTOR (6.8UH)	
C885			CK73GB1H104K	CHIP C	0.10UF	K		L301			L41-3985-33	SMALL FIXED INDUCTOR (0.39UH)	
C886			CC73GCH1H270J	CHIP C	27PF	J		1000			144 4005 00	ON ANTI-EINER INTRUCTOR	
C887			CC73GCH1H100D	CHIP C	10PF	D		L302 L303			L41-1005-33 L41-1095-33	SMALL FIXED INDUCTOR (10UH) SMALL FIXED INDUCTOR (1.0UH)	
C888			CC73GCH1H100D	CHIP C	27PF	J		L303			L41-1095-33	SMALL FIXED INDUCTOR (1.00H)	
C889			CK73GB1H104K	CHIP C	0.10UF	K		L304 L305			L41-3385-33	SMALL FIXED INDUCTOR (0.33UH)	
C894,895				CHIP C				L305 L306					
			CK73GB1H103K	CHIP C	0.010UF 10PF	K D		L300			L41-1095-33	SMALL FIXED INDUCTOR (1.0UH)	
C896			CC73GCH1H100D	CHIP C	IUTT	Ŋ		1207 200			L 41 200E 22	CMALL FIVED INDUCTOR (0.20111)	
0000 005			CV70CD4114041/	CLUD C	0.40115	V		L307,308			L41-3985-33	SMALL FIXED INDUCTOR (0.39UH)	
C920-925			CK73GB1H104K	CHIP C	0.10UF	K		L309			L41-1095-33	SMALL FIXED INDUCTOR (1.0UH)	
C926			CK73GB1H102K	CHIP C	1000PF	K		L310			L41-3385-33	SMALL FIXED INDUCTOR (0.33UH)	
C928,929			CK73GB1H104K	CHIP C	0.10UF	K		L311			L41-3985-33	SMALL FIXED INDUCTOR (0.39UH)	
C930,931			CK73GB1E105K	CHIP C	1.0UF	K		L312			L41-3385-33	SMALL FIXED INDUCTOR (0.33UH)	
C932			CC73GCH1H470J	CHIP C	47PF	J		1					

Ref. No.	Address	New parts	Parts No.	Description	Desti- nation	Ref. No.	Address	New	Parts No.		Descr	iption		Desti- nation
		hairs		•	nduvii			parts		OLUE 5				nation
L313			L41-1095-33	SMALL FIXED INDUCTOR (1.0UH)		R132			RK73GB2A271J	CHIP R	270	J	1/10W	
.314			L41-1005-33	SMALL FIXED INDUCTOR (10UH)		R133			RK73GB2A470J	CHIP R	47	J	1/10W	
401-403			L41-1095-33	SMALL FIXED INDUCTOR (1.0UH)		R134			RK73GB2A220J	CHIP R	22	J	1/10W	
404			L41-1005-33	SMALL FIXED INDUCTOR (10UH)		R135			RK73GB2A472J	CHIP R	4.7K	J	1/10W	
405			L41-3385-33	SMALL FIXED INDUCTOR (0.33UH)		R137			RK73GB2A102J	CHIP R	1.0K	J	1/10W	
403			L41-3303-33	SWALLTIALD INDUCTOR (0.33011)		11137			TIK/3UDZATUZJ	GIIII II	1.01	J	1/1000	
406			L41-1005-33	SMALL FIXED INDUCTOR (10UH)		R138			RK73GB2A103J	CHIP R	10K	J	1/10W	
407			L41-3985-33	SMALL FIXED INDUCTOR (0.39UH)		R139			RK73GB2A102J	CHIP R	1.0K	J	1/10W	
408			L41-1095-33	SMALL FIXED INDUCTOR (1.0UH)		R141			RK73GB2A101J	CHIP R	100	J	1/10W	
409,410			L41-3385-33	SMALL FIXED INDUCTOR (0.33UH)		R142			RK73GB2A221J	CHIP R	220	J	1/10W	
411			L41-3985-33	SMALL FIXED INDUCTOR (0.39UH)		R144,145			RK73GB2A000J	CHIP R	0.0	J	1/10W	
412			L41-1095-33	SMALL FIXED INDUCTOR (1.0UH)		R146			RK73GB2A121J	CHIP R	120	J	1/10W	
413			L41-3985-33	SMALL FIXED INDUCTOR (0.39UH)		R147			RK73GB2A470J	CHIP R	47	J	1/10W	
414,415			L41-1095-33	SMALL FIXED INDUCTOR (1.0UH)		R148			RK73GB2A121J	CHIP R	120	J	1/10W	
416,417			L41-1005-33	SMALL FIXED INDUCTOR (10UH)		R149			RK73GB2A221J	CHIP R	220	J	1/10W	
418			L41-5685-33	SMALL FIXED INDUCTOR (0.56UH)		R150			RK73GB2A820J	CHIP R	82	J	1/10W	
419,420			L41-6885-33	SMALL FIXED INDUCTOR (0.68UH)		R151			RK73GB2A101J	CHIP R	100	J	1/10W	
.421			L41-5685-33	SMALL FIXED INDUCTOR (0.56UH)		R152			RK73GB2A000J	CHIP R	0.0	J	1/10W	
		.,.			l									
.422		*	L39-1517-05	TOROIDAL COIL		R153			RK73GB2A271J	CHIP R	270	J	1/10W	
.423			L41-3305-33	SMALL FIXED INDUCTOR (33UH)		R154			RK73GB2A180J	CHIP R	18	J	1/10W	
424		*	L39-1517-05	TOROIDAL COIL		R155			RK73GB2A682J	CHIP R	6.8K	J	1/10W	
_425			L41-3305-33	SMALL FIXED INDUCTOR (33UH)		R156			RK73GB2A332J	CHIP R	3.3K	J	1/10W	
.426,427		*	L39-1517-05	TOROIDAL COIL		R157			RK73GB2A271J	CHIP R	270	J	1/10W	
.430			L41-5685-33	SMALL FIXED INDUCTOR (0.56UH)		R158			RK73GB2A103J	CHIP R	10K	J	1/10W	
.431			L41-6885-33	SMALL FIXED INDUCTOR (0.68UH)		R159-161			RK73GB2A104J	CHIP R	100K	J	1/10W	
433,434			L41-3985-33	SMALL FIXED INDUCTOR (0.39UH)		R164			RK73GB2A104J	CHIP R	100K	J	1/10W	
			144 0005 00	CAAAAA SIMSO INIDAAGAA (COLUM		D405 400			DI/TOODO A AOO I	OLUB B	4.01/		4 /4 0) 4 /	
435			L41-2205-33	SMALL FIXED INDUCTOR (22UH)		R165-168			RK73GB2A102J	CHIP R	1.0K	J	1/10W	
601,602			L41-3305-33	SMALL FIXED INDUCTOR (33UH)		R170			RK73GB2A000J	CHIP R	0.0	J	1/10W	
.603,604			L41-4705-33	SMALL FIXED INDUCTOR (47UH)		R171,172			RK73GB2A470J	CHIP R	47	J	1/10W	
.605			L41-2205-33	SMALL FIXED INDUCTOR (22UH)		R173,174			RK73GB2A102J	CHIP R	1.0K	J	1/10W	
.606,607		*	L41-1205-33	SMALL FIXED INDUCTOR (12UH)		R176			RK73GB2A000J	CHIP R	0.0	J	1/10W	
,													,	
L608			L41-1005-33	SMALL FIXED INDUCTOR (10UH)		R178			RK73GB2A000J	CHIP R	0.0	J	1/10W	
_609			L92-0140-05	CHIP FERRITE		R179			RK73GB2A224J	CHIP R	220K	J	1/10W	
_610			L41-1005-33	SMALL FIXED INDUCTOR (10UH)		R180			RK73GB2A101J	CHIP R	100	J	1/10W	
_611			L92-0140-05	CHIP FERRITE		R181			RK73GB2A104J	CHIP R	100K	J	1/10W	
_612			L41-3385-33	SMALL FIXED INDUCTOR (0.33UH)		R182			RK73GB2A101J	CHIP R	100	J	1/10W	
.613			L41-3985-33	SMALL FIXED INDUCTOR (0.39UH)		R183			RK73GB2A271J	CHIP R	270	J	1/10W	
.614			L41-1005-33	SMALL FIXED INDUCTOR (10UH)		R184			RK73GB2A470J	CHIP R	47	J	1/10W	
						1							-	
.801			L41-1095-33	SMALL FIXED INDUCTOR (1.0UH)		R185,186			RK73GB2A103J	CHIP R	10K	J	1/10W	
_810,811			L41-5675-33	SMALL FIXED INDUCTOR (0.056UH)		R187,188			RK73GB2A000J	CHIP R	0.0	J	1/10W	
812			L41-1005-33	SMALL FIXED INDUCTOR (10UH)		R189-191			RK73GB2A103J	CHIP R	10K	J	1/10W	
′201		.1.	177 1001 OF	VCVO (10.2MJ IZ)		R202			RK73GB2A000J	Chib b	0.0		1 /10\\	
(301		*	L77-1981-05	VCXO (19.2MHZ)						CHIP R	0.0	J	1/10W	
(401		*	L77-1981-05	VCXO (19.2MHZ)	l	R209			RK73GB2A101J	CHIP R	100	J	1/10W	
601		*	L77-3034-05	TCXO (19.2MHZ)		R210			RK73GB2A680J	CHIP R	68	J	1/10W	
						R211			RK73GB2A101J	CHIP R	100	J	1/10W	
P920			RK74GB1J102J	CHIP-COM 1.0K J 1/16W		R212			RK73GB2A562J	CHIP R	5.6K	J	1/10W	
P923			RK74GB1J102J	CHIP-COM 1.0K J 1/16W		1					-			
P924			RK75GB1JR00	CHIP-COM 0.00 1/16W		R213			RK73GB2A222J	CHIP R	2.2K	J	1/10W	
P926		*	RK74GB1J681J	CHIP-COM 680 J 1/16W		R214			RK73GB2A221J	CHIP R	220	J	1/10W	
P928		*	RK74GB1J681J	CHIP-COM 680 J 1/16W		R215			RK73GB2A000J	CHIP R	0.0	J	1/10W	
						R216			RK73GB2A470J	CHIP R	47	J	1/10W	
P961,962		*	RK74GB1J681J	CHIP-COM 680 J 1/16W		R217			RK73GB2A271J	CHIP R	270	J	1/10W	
P965,966		*	RK74GB1J681J	CHIP-COM 680 J 1/16W		1								
P970,971		*	RK74GB1J681J	CHIP-COM 680 J 1/16W		R218			RK73GB2A180J	CHIP R	18	J	1/10W	
-														
P973,974		*	RK74GB1J681J	CHIP-COM 680 J 1/16W		R219			RK73GB2A271J	CHIP R	270	J	1/10W	
101			RK73GB2A000J	CHIP R 0.0 J 1/10W		R220			RK73GB2A560J	CHIP R	56	J	1/10W	
0110			DI/ZOODO A OCO !	CHIRD 0.0		R221			RK73GB2A103J	CHIP R	10K	J	1/10W	
R118			RK73GB2A000J	CHIP R 0.0 J 1/10W		R222			RK73GB2A000J	CHIP R	0.0	J	1/10W	
3120			RK73GB2A100J	CHIP R 10 J 1/10W	l	1								
123			RK73GB2A000J	CHIP R 0.0 J 1/10W	l	R223		1	RK73GB2A123J	CHIP R	12K	J	1/10W	
124,125			RK73GB2A105J	CHIP R 1.0M J 1/10W	I	R224			RK73GB2A102J	CHIP R	1.0K	J	1/10W	
129			RK73GB2A101J	CHIP R 100 J 1/10W	l	R225			RK73GB2A474J	CHIP R	470K	J	1/10W	
123			HIN/JUDEATUIJ	OTHER TOO J 1/1000										
						R226,227	1	1	RK73GB2A000J	CHIP R	0.0	J	1/10W	1
131			RK73GB2A101J	CHIP R 100 J 1/10W		R229			RK73GB2A563J	CHIP R	56K	J	1/10W	

PARTS LIST

TX UNIT (V20-21	10-1	0 ,														
Ref. No.	Address	New parts	Parts No.		Descr	iption	ı	Desti- nation	Ref. No.	Address	New parts	Parts No.		Descr	iptio	1	Desti- nation
R230		-	RK73FB2B4R7J	CHIP R	4.7	J	1/8W		R339			RK73GB2A104J	CHIP R	100K	J	1/10W	
R231,232			RK73GB2A000J	CHIP R	0.0	J	1/10W		R340			RK73GB2A101J	CHIP R	1001	J	1/10W	
									R341								
R233			RK73GB2A104J	CHIP R	100K	J	1/10W					RK73GB2A221J	CHIP R	220	J	1/10W	
R234,235			RK73GB2A474J	CHIP R	470K	J	1/10W		R342			RK73GB2A470J	CHIP R	47	J	1/10W	
R236			RK73GB2A821J	CHIP R	820	J	1/10W		R343			RK73GB2A000J	CHIP R	0.0	J	1/10W	
R241			RK73GB2A000J	CHIP R	0.0	J	1/10W		R344-351			RK73GB2A104J	CHIP R	100K	J	1/10W	
R242			RK73GB2A474J	CHIP R	470K	J	1/10W		R352			RK73GB2A123J	CHIP R	12K	J	1/10W	
R243			RK73GB2A392J	CHIP R	3.9K	J	1/10W		R353			RK73GB2A332J	CHIP R	3.3K	J	1/10W	
R244-246			RK73GB2A102J	CHIP R	1.0K	J	1/10W		R355			RK73GB2A221J	CHIP R	220	J	1/10W	
R247-249			RK73GB2A104J	CHIP R	100K	J	1/10W		R356			RK73GB2A100J	CHIP R	10	J	1/10W	
R250			RK73GB2A473J	CHIP R	47K	J	1/10W		R357			RK73GB2A101J	CHIP R	100	J	1/10W	
R251			RK73GB2A100J	CHIP R	10	J	1/10W		R358			RK73GB2A105J	CHIP R	1.0M	J	1/10W	
R252			RK73GB2A104J	CHIP R	100K	J	1/10W		R360			RK73GB2A104J	CHIP R	100K	J	1/10W	
R253			RK73GB2A331J	CHIP R	330	J	1/10W		R362			RK73GB2A100J	CHIP R	10	J	1/10W	
R254			RK73GB2A100J	CHIP R	10	J	1/10W		R363			RK73GB2A471J	CHIP R	470	J	1/10W	
R255			DV72CD2A27AI	CHIP R	270K		1/10\\/		R364			BV72CB2A10A1	CHIP R	100K		1/10\\/	
			RK73GB2A274J			J	1/10W	I				RK73GB2A104J	1		J	1/10W	
R256			RK73GB2A102J	CHIP R	1.0K	J	1/10W		R367			RK73GB2A104J	CHIP R	100K	J	1/10W	
R257,258			RK73GB2A000J	CHIP R	0.0	J	1/10W		R368			RK73GB2A822J	CHIP R	8.2K	J	1/10W	
R259			RK73GB2A562J	CHIP R	5.6K	J	1/10W		R369			RK73GB2A000J	CHIP R	0.0	J	1/10W	
R260			RK73GB2A331J	CHIP R	330	J	1/10W		R370			RK73GB2A182J	CHIP R	1.8K	J	1/10W	
R261			RK73GB2A562J	CHIP R	5.6K	J	1/10W		R371			RK73GB2A2R2J	CHIP R	2.2	J	1/10W	
R262			RK73GB2A302J	CHIP R	1.0K	J	1/10W		R374			RK73GB2A000J	CHIP R	0.0	J	1/10W	
													1				
R263			RK73GB2A563J	CHIP R	56K	J	1/10W		R375,376			RK73GB2A563J	CHIP R	56K	J	1/10W	
R264			RK73GB2A100J	CHIP R	10	J	1/10W		R377,378			RK73GB2A104J	CHIP R	100K	J	1/10W	
R265			RK73GB2A471J	CHIP R	470	J	1/10W		R379			RK73GB2A000J	CHIP R	0.0	J	1/10W	
R266			RK73GB2A000J	CHIP R	0.0	J	1/10W		R380			RK73GB2A470J	CHIP R	47	J	1/10W	
R267			RK73GB2A271J	CHIP R	270	J	1/10W		R381			RK73GB2A104J	CHIP R	100K	J	1/10W	
R268			RK73GB2A180J	CHIP R	18	J	1/10W		R401			RK73GB2A000J	CHIP R	0.0	J	1/10W	
R269			RK73GB2A1000	CHIP R	270	J	1/10W		R402			RK73GB2A474J	CHIP R	470K	J	1/10W	
R270,271			RK73GB2A2713	CHIP R	4.7K	J	1/10W		R403,404			RK73GB2A4743	CHIP R	1.0K	J	1/10W	
							.,									.,	
R272			RK73GB2A100J	CHIP R	10	J	1/10W		R406-408			RK73GB2A100J	CHIP R	10	J	1/10W	
R274			RK73GB2A331J	CHIP R	330	J	1/10W		R409			RK73GB2A000J	CHIP R	0.0	J	1/10W	
R276			RK73GB2A000J	CHIP R	0.0	J	1/10W		R410			RK73GB2A331J	CHIP R	330	J	1/10W	
R301,302			RK73GB2A473J	CHIP R	47K	J	1/10W		R411			RK73GB2A000J	CHIP R	0.0	J	1/10W	
R303			RK73GB2A000J	CHIP R	0.0	J	1/10W		R412			RK73GB2A331J	CHIP R	330	J	1/10W	
R304			RK73GB2A471J	CHIP R	470	J	1/10W		R413			RK73GB2A123J	CHIP R	12K	J	1/10W	
R305				CHIP R	100K	J	1/10W		R414			RK73GB2A562J	CHIP R	5.6K			
			RK73GB2A104J										1		J	1/10W	
R306-309			RK73GB2A102J	CHIP R	1.0K	J	1/10W		R415			RK73GB2A123J	CHIP R	12K	J	1/10W	
R310,311			RK73GB2A104J	CHIP R	100K	J	1/10W		R416			RK73GB2A562J	CHIP R	5.6K	J	1/10W	
R312			RK73GB2A154J	CHIP R	150K	J	1/10W		R417,418			RK73GB2A000J	CHIP R	0.0	J	1/10W	
R313			RK73GB2A2R2J	CHIP R	2.2	J	1/10W		R422-424			RK73GB2A474J	CHIP R	470K	J	1/10W	
R314			RK73GB2A000J	CHIP R	0.0	J	1/10W		R425			RK73GB2A104J	CHIP R	100K	J	1/10W	
R316			RK73GB2A683J	CHIP R	68K	J	1/10W		R427			RK73GB2A100J	CHIP R	10	J	1/10W	
R317			RK73GB2A0033	CHIP R	100K	J	1/10W	I	R430,431			RK73GB2A100J	CHIP R	10	J	1/10W	
R318			RK73GB2A472J	CHIP R	4.7K	J	1/10W		R430,431			RK73GB2A100J	CHIP R	1.0K	J	1/10VV 1/10W	
R319			RK73GB2A104J	CHIP R	100K	J	1/10W		R434			RK73GB2A000J	CHIP R	0.0	J	1/10W	
R320			RK73GB2A470J	CHIP R	47	J	1/10W		R435			RK73GB2A104J	CHIP R	100K	J	1/10W	
R321-323			RK73GB2A100J	CHIP R	10	J	1/10W		R436,437			RK73GB2A102J	CHIP R	1.0K	J	1/10W	
R324			RK73GB2A682J	CHIP R	6.8K	J	1/10W		R438			RK73GB2A104J	CHIP R	100K	J	1/10W	
R325			RK73GB2A332J	CHIP R	3.3K	J	1/10W		R439			RK73GB2A2R2J	CHIP R	2.2	J	1/10W	
R326			RK73GB2A100J	CHIP R	10	J	1/10W		R440			RK73GB2A103J	CHIP R	10K	J	1/10W	
R327,328			RK73GB2A000J	CHIP R	0.0	J	1/10W	I	R442			RK73GB2A470J	CHIP R	47	J	1/10W	
R329,330			RK73GB2A104J	CHIP R	100K	J	1/10W		R447			RK73GB2A000J	CHIP R	0.0	J	1/10W	
R331,332			RK73GB2A471J	CHIP R	470	J	1/10W		R452,453			RK73GB2A000J	CHIP R	0.0	J	1/10W	
R333			RK73GB2A471J	CHIP R	0.0	J	1/10VV 1/10W		R452,453 R454,455			RK73GB2A000J	CHIP R	0.0 1.0M	J	1/10VV 1/10W	
															-		
R334			RK73GB2A473J	CHIP R	47K	J	1/10W		R457			RK73GB2A333J	CHIP R	33K	J	1/10W	
R335			RK73GB2A223J	CHIP R	22K	J	1/10W		R458			RK73GB2A104J	CHIP R	100K	J	1/10W	
R336			RK73GB2A334J	CHIP R	330K	J	1/10W		R459			RK73GB2A472J	CHIP R	4.7K	J	1/10W	
R337			RK73GB2A273J	CHIP R	27K	J	1/10W	I	R460			RK73GB2A183J	CHIP R	18K	J	1/10W	
R338			RK73GB2A105J	CHIP R	1.0M	J	1/10W		R461			RK73GB2A000J	CHIP R	0.0	J	1/10W	
					-		•		<u></u>							•	

Ref. No.	Address	New	Parts No.		Descr	intio		Dești-	Ref. No.	Address	New	Parts No.		Descr	intic	,	Desti-
nei. No.	Audress	parts	Parts No.		Descr	iptioi		nation	Kei. No.	Address	parts	Paris No.		Descr	iptioi	1	nation
R463			RK73GB2A000J	CHIP R	0.0	J	1/10W		R538			RK73GB2A102J	CHIP R	1.0K	J	1/10W	
R464			RK73GB2A221J	CHIP R	220	J	1/10W		R539			RK73GB2A100J	CHIP R	10	J	1/10W	
R465			RK73GB2A000J	CHIP R	0.0	J	1/10W		R540			RK73GB2A474J	CHIP R	470K	J	1/10W	
R466			RK73GB2A470J	CHIP R	47	J	1/10W		R541			RK73FB2B1R0J	CHIP R	1.0	J	1/8W	
R469,470			RK73GB2A000J	CHIP R	0.0	J	1/10W		R542			RK73GB2A102J	CHIP R	1.0K	J	1/10W	
11403,470			TIK73GBZA0003	Giiii ii	0.0	J	1/1000		11342			TIK730BZAT025	Gilli II	1.01	J	1/1000	
R471			RK73GB2A102J	CHIP R	1.0K	J	1/10W		R543			RK73GB2A220J	CHIP R	22	J	1/10W	
R474			RK73GB2A682J	CHIP R	6.8K	J	1/10W		R544			RK73GB2A104J	CHIP R	100K	J	1/10W	
R475			RK73GB2A332J	CHIP R	3.3K	J	1/10W		R545			RK73GB2A470J	CHIP R	47	J	1/10W	
R476.477			RK73GB2A000J	CHIP R	0.0	J	1/10W		R547			RK73GB2A472J	CHIP R	4.7K	J	1/10W	
R478			RK73GB2A0003	CHIP R	15K	J	1/10W		R548			RK73GB2A472J	CHIP R	4.7K	J	1/10W	
11470			TIK/3GBZA1333	Cim ii	TUK	J	1/1000		11340			TIK73GBZA4733	Giiii ii	4/10	J	1/1000	
R479			RK73GB2A2R2J	CHIP R	2.2	J	1/10W		R549			RK73GB2A331J	CHIP R	330	J	1/10W	
R480			RK73GB2A682J	CHIP R	6.8K	J	1/10W		R550			RK73GB2A104J	CHIP R	100K	J	1/10W	
R481			RK73GB2A182J	CHIP R	1.8K	J	1/10W		R551			RK73GB2A473J	CHIP R	47K	J	1/10W	
R482			RK73GB2A103J	CHIP R	10K	J	1/10W		R552			RK73GB2A104J	CHIP R	100K	J	1/10W	
R483			RK73GB2A562J	CHIP R	5.6K	J	1/10W		R553			RK73GB2A223J	CHIP R	22K	J	1/10W	
7404			DV72CD2A101 I	CLUID D	100		1 /10\\/		DEE4			DV72CD2A100 I	CLUD D	10		1 /10\\	
3484			RK73GB2A101J	CHIP R	100	J	1/10W		R554			RK73GB2A180J	CHIP R	18	J	1/10W	
1485			RK73GB2A392J	CHIP R	3.9K	J	1/10W		R555			RK73GB2A102J	CHIP R	1.0K	J	1/10W	
R486			RK73GB2A221J	CHIP R	220	J	1/10W		R556			RK73GB2A122J	CHIP R	1.2K	J	1/10W	
1487			RK73GB2A102J	CHIP R	1.0K	J	1/10W		R557			RK73GB2A473J	CHIP R	47K	J	1/10W	
R488			RK73GB2A822J	CHIP R	8.2K	J	1/10W		R558			RK73GB2A331J	CHIP R	330	Ĵ	1/10W	
2/00			RK73GB2A272J	CHIP R	2.7K	J	1/10\\		R560			RK73GB2A000J	CHIP R	0.0	J	1/10W	
3489				1			1/10W										
1490			RK73GB2A470J	CHIP R	47	J	1/10W		R561			RK73GB2A102J	CHIP R	1.0K	J	1/10W	
R492			RK73GB2A471J	CHIP R	470	J	1/10W		R562			RK73GB2A104J	CHIP R	100K	J	1/10W	
R493			RK73GB2A104J	CHIP R	100K	J	1/10W		R563			RK73GB2A473J	CHIP R	47K	J	1/10W	
R494			RK73GB2A123J	CHIP R	12K	J	1/10W		R564			RK73GB2A223J	CHIP R	22K	J	1/10W	
R495			RK73GB2A332J	CHIP R	3.3K	J	1/10W		R566			RK73GB2A473J	CHIP R	47K	J	1/10W	
				1													
3496,497			RK73GB2A100J	CHIP R	10	J	1/10W		R567			RK73GB2A472J	CHIP R	4.7K	J	1/10W	
R498			RK73GB2A471J	CHIP R	470	J	1/10W		R568			RK73GB2A224J	CHIP R	220K	J	1/10W	
R499			RK73GB2A682J	CHIP R	6.8K	J	1/10W		R569			RK73GB2A561J	CHIP R	560	J	1/10W	
R500			RK73GB2A332J	CHIP R	3.3K	J	1/10W		R570			RK73GB2A473J	CHIP R	47K	J	1/10W	
R501			RK73GB2A221J	CHIP R	220	J	1/10W		R571			RK73GB2A100J	CHIP R	10	J	1/10W	
R502			RK73GB2A000J	CHIP R	0.0	J	1/10W		R573			RK73GB2A104J	CHIP R	100K	J	1/10W	
				1												•	
R503			RK73GB2A100J	CHIP R	10	J	1/10W		R575			RK73GB2A472J	CHIP R	4.7K	J	1/10W	
R504			RK73GB2A104J	CHIP R	100K	J	1/10W		R576			RK73FB2B1R0J	CHIP R	1.0	J	1/8W	
R505			RK73GB2A000J	CHIP R	0.0	J	1/10W		R577			RK73GB2A104J	CHIP R	100K	J	1/10W	
R506			RK73GB2A101J	CHIP R	100	J	1/10W		R578			RK73GB2A000J	CHIP R	0.0	J	1/10W	
R507			RK73GB2A100J	CHIP R	10	J	1/10W		R580			RK73GB2A220J	CHIP R	22	Ĵ	1/10W	
R508-510			RK73GB2A000J	CHIP R	0.0	J	1/10W		R581			RK73GB2A2200	CHIP R	100K	J	1/10W	
				1		-											
R511			RK73GB2A102J	CHIP R	1.0K	J	1/10W		R582			RK73GB2A474J	CHIP R	470K	J	1/10W	
R512			RK73GB2A181J	CHIP R	180	J	1/10W		R583			RK73GB2A221J	CHIP R	220	J	1/10W	
3513			RK73GB2A471J	CHIP R	470	J	1/10W		R586			RK73GB2A104J	CHIP R	100K	J	1/10W	
R514			RK73GB2A100J	CHIP R	10	J	1/10W		R588			RK73GB2A103J	CHIP R	10K	J	1/10W	
R515			RK73GB2A470J	CHIP R	47	J	1/10W		R591			RK73FB2B271J	CHIP R	270	J	1/8W	
R518			RK73GB2A104J	CHIP R	100K	J	1/10W		R592			RK73GB2A273J	CHIP R	27K	J	1/10W	
R519			RK73GB2A1043	CHIP R	120K	J	1/10W		R593			RK73FB2B120J	CHIP R	12	J	1/8W	
DE04			DI/700D0 A 000 I	CLUBB	001/	,	1 /10\4/		DEGA			DV70ED0D074	OLUD D	070		1 (0) 1 (
R521			RK73GB2A223J	CHIP R	22K	J	1/10W		R594			RK73FB2B271J	CHIP R	270	J	1/8W	
R522			RK73GB2A822J	CHIP R	8.2K	J	1/10W		R595			RK73GB2A102J	CHIP R	1.0K	J	1/10W	
R523,524			RK73GB2A221J	CHIP R	220	J	1/10W		R601			RK73GB2A103J	CHIP R	10K	J	1/10W	
R525			RK73GB2A471J	CHIP R	470	J	1/10W		R602			RK73GB2A104J	CHIP R	100K	J	1/10W	
R526			RK73GB2A473J	CHIP R	47K	J	1/10W		R603			RK73GB2A222J	CHIP R	2.2K	J	1/10W	
R527			RK73GB2A271J	CHIP R	270	J	1/10W		R604			RK73GB2A473J	CHIP R	47K	J	1/10W	
R528			RK73GB2A2710	CHIP R	1.5K	J	1/10W		R605			RK73GB2A473J	CHIP R	15K	J	1/10W	
1526 1529			RK73GB2A152J	CHIP R	1.5K	J			R606			RK73GB2A1333	CHIP R			•	
				1			1/10W							180	J	1/10W	
R530 R531			RK73GB2A120J RK73GB2A474J	CHIP R CHIP R	12 470K	J J	1/10W 1/10W		R607 R608			RK73GB2A470J RK73GB2A222J	CHIP R CHIP R	47 2.2K	J J	1/10W 1/10W	
1001			HIK/JUDZA4/4J	GI IIF N	4/UN	J	1/1000		11000			TIK/JUDZAZZZJ	GI IIF N	L.ZN	J	1/1000	
R532			RK73GB2A271J	CHIP R	270	J	1/10W		R610			RK73GB2A104J	CHIP R	100K	J	1/10W	
R533			RK73GB2A104J	CHIP R	100K	J	1/10W		R611			RK73GB2A100J	CHIP R	10	J	1/10W	
3534			RK73GB2A221J	CHIP R	220	J	1/10W		R612			RK73GB2A471J	CHIP R	470	J	1/10W	
3535			RK73GB2A104J	CHIP R	100K	J	1/10W		R613			RK73GB2A682J	CHIP R	6.8K	J	1/10W	
				1	1.0K	J	1/10W		R614			RK73GB2A332J	CHIP R	3.3K	J	1/10W	1
R536			RK73GB2A102J	CHIP R	I IIIK											1/11/1//	

PARTS LIST

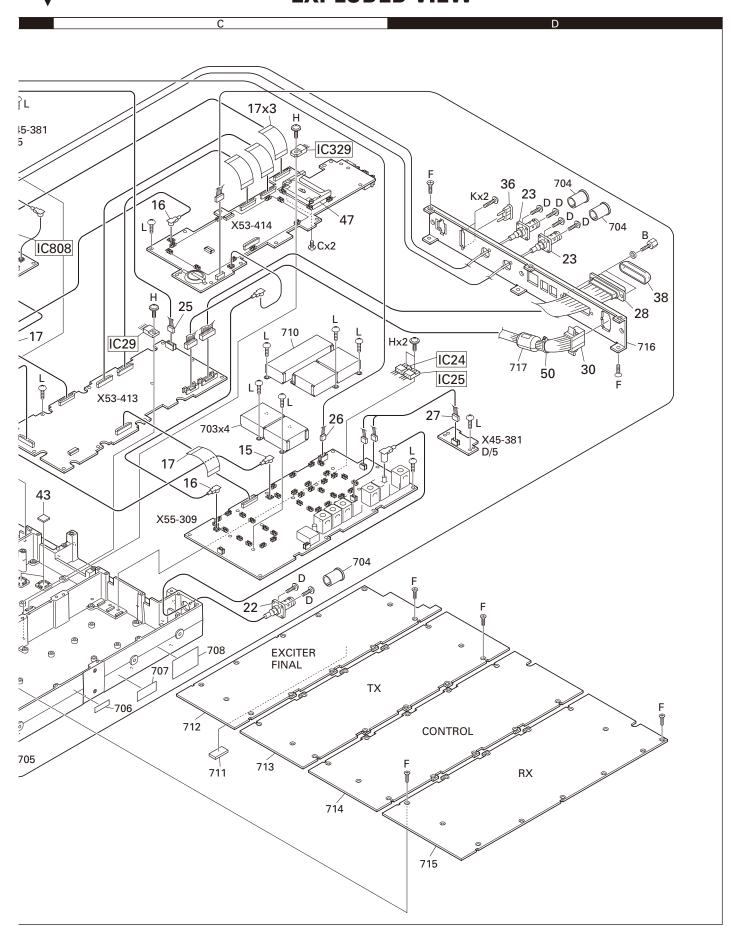
TX UNIT (X56-31	10-1	0)	_										
Ref. No.	Address	New parts	Parts No.		Descr	iptior	ı	Desti- nation	Ref. No.	Address	New parts	Parts No.	Description	Desti- nation
R615		_	RK73GB2A471J	CHIP R	470	J	1/10W		R947		•	RK73GB2A000J	CHIP R 0.0 J 1/10W	
R616			RK73GB2A000J	CHIP R	0.0	J	1/10W		R948,949			RK73GH2A104D	CHIP R 100K D 1/10W	
R617			RK73GB2A0003	CHIP R	470	J	1/10W		R950			RK73GH2A822D	CHIP R 8.2K D 1/10W	
R618			RK73GB2A104J	CHIP R	100K	J	1/10W		R951			RK73GB2A122J	CHIP R 1.2K J 1/10W	
R619			RK73GB2A100J	CHIP R	10	J	1/10W		R960-965			RK73GB2A000J	CHIP R 0.0 J 1/10W	
R620			RK73GB2A104J	CHIP R	100K	J	1/10W		R966,967			RK73GB2A681J	CHIP R 680 J 1/10W	
R621			RK73GB2A471J	CHIP R	470	J	1/10W		VR401,402			R32-0754-05	SEMI FIXED VARIABLE RESISTOR	
R622			RK73GB2A331J	CHIP R	330	J	1/10W							
R623			RK73GB2A392J	CHIP R	3.9K	J	1/10W		S920-925			S70-0502-05	TACT SWITCH	
R624			RK73GB2A474J	CHIP R	470K	J	1/10W							
									D101,102			1SV283F	VARIABLE CAPACITANCE DIODE	
R625			RK73GB2A000J	CHIP R	0.0	J	1/10W		D106			1SV278F	VARIABLE CAPACITANCE DIODE	
R626-628			RK73GB2A102J	CHIP R	1.0K	J	1/10W		D107,108			1SV283F	VARIABLE CAPACITANCE DIODE	
R629			RK73GB2A101J	CHIP R	100	J	1/10W		D112			1SV278F	VARIABLE CAPACITANCE DIODE	
R630			RK73GB2A102J	CHIP R	1.0K	J	1/10W		D201			HSM88AS-E	DIODE	
R631			RK73GB2A561J	CHIP R	560	J	1/10W							
									D401-403			HSM88AS-E	DIODE	
R637,638			RK73GB2A472J	CHIP R	4.7K	J	1/10W		D404,405		*	JDP4P02U	DIODE	
R639,640			RK73GH2A104D	CHIP R	100K	D	1/10W		D404,403		•	HSC119	DIODE	
R705			RK73GB2A2R2J	CHIP R	2.2	J	1/10W		D400,407			HSM88AS-E	DIODE	
R706-708				CHIP R					D408 D409					
R706-708 R709			RK73GB2A100J		10 470K	J	1/10W		D409			CSA70-401L	SURGE ABSORBER	
เท/บฮ			RK73GB2A474J	CHIP R	470K	J	1/10W		D601,602		*	JDP4P02U	DIODE	
D744			DI/ZOODO A 4 O 4 I	OLUD D	4001/		4 /4 0\ 4 /							
R711			RK73GB2A104J	CHIP R	100K	J	1/10W		D603-606		*	UDZS3.0B	ZENER DIODE	
R712,713			RK73GB2A472J	CHIP R	4.7K	J	1/10W		D933,934			HSM88AS-E	DIODE	
R714			RK73GB2A104J	CHIP R	100K	J	1/10W		D935,936			1SS355	DIODE	
R715			RK73GB2A474J	CHIP R	470K	J	1/10W		D960,961		*	PSA0511EWA-FG1	LED	
R716-718			RK73GB2A100J	CHIP R	10	J	1/10W		10404			LA NYOSESTA NY ALD		
D710 700			DV700D0A4041	CLUD D	1001/		1 /10\A/		IC101			LMX2352TMX/NP	ANALOGUE IC	
R719,720			RK73GB2A104J	CHIP R	100K	J	1/10W		IC102		١.	LMC7101BIM5	MOS-IC	
R721			RK73GB2A100J	CHIP R	10	J	1/10W		IC104		*	NJM2386ADL3-09	ANALOGUE IC	
R722			RK73GB2A474J	CHIP R	470K	J	1/10W		IC201			NJM2904E-ZB	ANALOGUE IC	
R801			RK73GB2A102J	CHIP R	1.0K	J	1/10W		IC202			AD9835BRUZ	MOS-IC	
R802,803			RK73GB2A104J	CHIP R	100K	J	1/10W							
									IC301		*	NJM2732V	BI-POLAR IC	
R804-807			RK73GB2A100J	CHIP R	10	J	1/10W		IC302		*	NJU6368PF1	MOS-IC	
R812-824			RK73GB2A000J	CHIP R	0.0	J	1/10W		IC303		*	ADF4001BRUZ	MOS-IC	
R830-837			RK73GB2A000J	CHIP R	0.0	J	1/10W		IC304			M62364FP-F	MOS-IC	
R840			RK73GB2A000J	CHIP R	0.0	J	1/10W		IC305		*	NJM2732V	BI-POLAR IC	
R845			RK73GB2A000J	CHIP R	0.0	J	1/10W		10000			11011127021	3.132	
									IC306			LMC7101BIM5	MOS-IC	
R855			RK73GB2A560J	CHIP R	56	J	1/10W		IC307		*	NJU6368PF1	MOS-IC	
R856			RK73GB2A220J	CHIP R	22	J	1/10W		IC308		*	NJM2732V	BI-POLAR IC	
R865			RK73GB2A104J	CHIP R	100K	J	1/10W		IC401			LMC7101BIM5	MOS-IC	
R866,867			RK73GB2A000J	CHIP R	0.0	J	1/10W		IC404		*	ADF4001BRUZ	MOS-IC	
R869			RK73GB2A104J	CHIP R	100K	.J			10101			7101 100101102	I Woo to	
11000			TIIN SUBLATORO	01111 11	TOOK	U	1/1000		IC405,406		*	TC75S59F-F	MOS-IC	
R870			RK73GB2A101J	CHIP R	100	J	1/10W		IC407		*	NJU6368PF1	MOS-IC	
R871,872			RK73GB2A1013	CHIP R	100K	J	1/10W		IC407		-4-	TA75S01F-F	MOS-IC	
R873			RK73GB2A104J	CHIP R	100K	J			IC406,409			AD9835BRUZ	MOS-IC	
							1/10W				-1-			
R877			RK73GB2A104J	CHIP R	100K	J	1/10W		IC602		*	NJU6368PF1	MOS-IC	
R878			RK73GB2A000J	CHIP R	0.0	J	1/10W		ICEUS			ALESUADSSSW	MOSIC	
D070			DV70CD2A4041	CLUD D	1001/	,	1 /10\4/		IC603			XC6204B332M	MOS-IC	
R879			RK73GB2A104J	CHIP R	100K	J	1/10W		IC701			BH2220FVM	ANALOGUE IC	
R881			RK73GB2A000J	CHIP R	0.0	J	1/10W		IC702			S24CS02AFJTBG	ROM IC	
R887-889			RK73GB2A102J	CHIP R	1.0K	J	1/10W		IC703			BU4094BCFV	MOS-IC	
R891			RK73GB2A102J	CHIP R	1.0K	J	1/10W		IC704		*	NJM78M08DL1AZB	ANALOGUE IC	
R920-932			RK73GB2A000J	CHIP R	0.0	J	1/10W		10305 300			N. IN 4702 405D: 4 4 75	ANIALOGUE IO	
R933			RK73GB2A821J	ח פוגן	020	1	1/10\\/		IC705,706			NJM78M05DL1AZB AD1582	ANALOGUE IC	
				CHIP R	820	J	1/10W		IC801		*		ANALOGUE IC	
R934,935			RK73GB2A000J	CHIP R	0.0	J	1/10W		IC802		*	AD5312BRM	MOS-IC	
R936,937			RK73GB2A122J	CHIP R	1.2K	J	1/10W		IC803		*	AD7908BRU	MOS-IC	
R938,939			RK73GB2A821J	CHIP R	820	J	1/10W		IC804		*	LM50BIM3/NOPB	MOS-IC	
R940			RK73GB2A122J	CHIP R	1.2K	J	1/10W							
D044			DIVZOCDO A OCC. I	OLUB S	000		1 /10\4		IC805,806		*	TC7SET126FU-F	MOS-IC	
R941			RK73GB2A821J	CHIP R	820	J	1/10W		IC807	1.5		NJM78M05DL1AZB	ANALOGUE IC	
R942			RK73GB2A000J	CHIP R	0.0	J	1/10W		IC808,809	1B		NJM7808FA-ZB	BI-POLAR IC	
R943			RK73GH2A224D	CHIP R	220K	D	1/10W		IC810			TK11230CMCL-G	BI-POLAR IC	
R944,945			RK73GB2A102J	CHIP R	1.0K	J	1/10W		IC811		*	PE3511-52	MOS-IC	
R946			RK73GB2A103J	CHIP R	10K	J	1/10W		1					
			lf -						L		1		1	

Ref. No.	Address	New parts	Parts No.	Description	Desti- nation	Ref. No.	Address	New parts	Parts No.	Description	X56-3110-10) Desti- nation
IC920-922 IC923-925 IC926 IC960-963 Q101		*	TC7SET126FU-F BU4094BCFV NJM2732V BU4094BCFV SSM3K15TE(F)	MOS-IC MOS-IC BI-POLAR IC MOS-IC FET							
Q102,103 Q104 Q105 Q106 Q107,108			2SK508NV(K52) 2SC3356-A(R24) 2SC4116(BL)F 2SC3356-A(R24) 2SC4116(BL)F	FET TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR							
Q109 Q110 Q202 Q203 Q204		*	2SA1832F SSM3K15TE(F) 2SC5337 RD01MUS1-T113 SSM3K15TE(F)	TRANSISTOR FET TRANSISTOR FET FET							
Q205 Q206 Q210 Q211-213 Q301,302		*	SSM3J01F SSM3K15TE(F) SSM3K15TE(F) 2SC4617(R) SSM3K15TE(F)	FET FET TRANSISTOR FET							
Q303 Q304,305 Q307 Q401,402 Q405		*	2SA1832F 2SC4617(R) 2SC4617(R) 2SC4617(R) SSM3K15TE(F)	TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR FET							
Q407-409 Q410 Q412 Q413,414 Q415-419		*	SSM3K15TE(F) 2SA1832F 2SC4617(R) SSM3K15TE(F) 2SC4617(R)	FET TRANSISTOR TRANSISTOR FET TRANSISTOR							
Q420 Q421 Q422 Q423 Q424			3SK317-E SSM6L05FU-F RD01MUS1-T113 SSM6L05FU-F SSM3K15TE(F)	FET FET FET							
Q425 Q426 Q428,429 Q430,431 Q601		*	RD01MUS1-T113 SSM3J01F SSM3K15TE(F) 3SK317-E SSM3J01F	FET FET FET FET							
Q602 Q603 Q604 Q605 Q606		*	SSM3K15TE(F) 2SC4617(R) SSM3K15TE(F) SSM3J01F 2SC4617(R)	FET TRANSISTOR FET FET TRANSISTOR							
Q607-609 Q701,702 Q920-930 Q931 Q932		*	SSM3K15TE(F) SSM3K15TE(F) UMG1N 2SC4116(Y)F 2SA1586(Y)F	FET FET TRANSISTOR TRANSISTOR TRANSISTOR							
Ω960-976 TH101,102			UMG1N 157-302-65801	TRANSISTOR THERMISTOR							

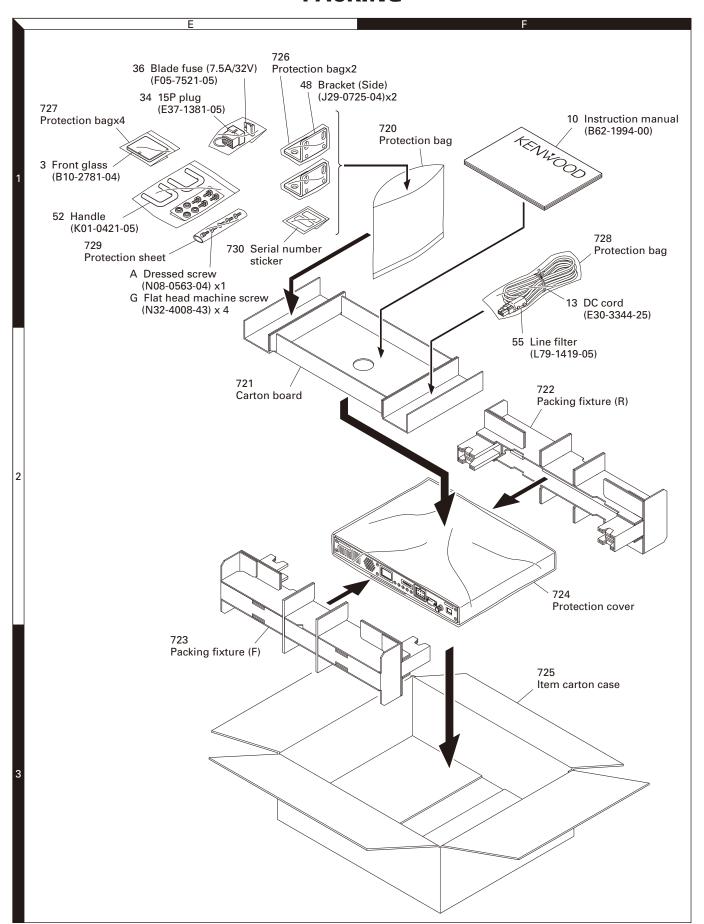
EXPLODED VIEW

Hx2 IC12 В : N09-2292-05 IC11 С M2 x 8 : N30-2008-43 D M2.6 x 6 : N30-2606-48 X45-381 M3 x 16 : N30-3016-43 16 L $M3 \times 6 (F)$: N32-3006-43 IC10 L ₽L M4 x 8 (F) : N32-4008-43 703x3 Н : N67-3008-48 J : N80-2006-43 Κ : N80-2608-43 M2.6 x 8 (Br-Tap) : N87-2608-48 IC809 X45-381 A/5 IC808 21 X56-311 Ex4 A/3 700 X56-311 C/3 X56-31 705 46 X45-381

EXPLODED VIEW



PACKING



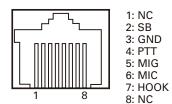
Parts with the exploded numbers larger than 700 are not supplied.

ADJUSTMENT

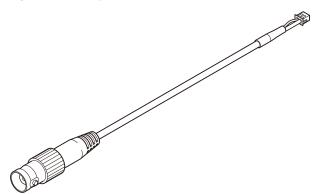
Test Equipment Required for Alignment

Test Equipment		Major Specifications
Standard Signal Generator (SSG)	Frequency Range Modulation Output	136 to 174MHz Frequency modulation and external modulation 0.1µV to greater than 1mV
2. Power Meter	Input Impedance Operation Frequency Measurement Capability	50Ω 136 to 174MHz or more Vicinity of 100W
3. Deviation Meter	Frequency Range	136 to 174MHz
4. Digital Volt Meter (DVM)	Measuring Range Input Impedance	1V to 20V DC High input impedance for minimum circuit loading
5. Oscilloscope		DC through 30MHz
High Sensitivity Frequency Counter	Frequency Range Frequency Stability	10Hz to 600MHz 0.2ppm or less
7. Ammeter		15A or more
8. AF Volt Meter (AF V.M)	Frequency Range Voltage Range	50Hz to 10kHz 3mV to 3V
9. Audio Generator (AG)	Frequency Range Output	50Hz to 5kHz 0 to 1V
10. Distortion Meter	Capability Input Level	1% or less at 1kHz 50mV to 10Vrms
11. Voltmeter	Measuring Rnage Input Impedance	10V to 1.5V DC or less 50kΩ/V or greater
12. 4Ω Dummy Load		Approx. 4Ω, 5W

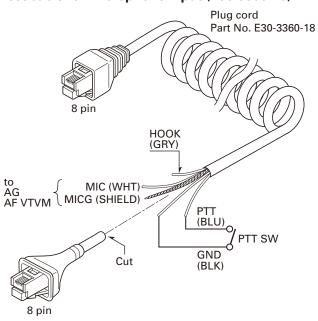
MIC connector (Front panel view)



Jig for MCF adjustment (W05-1000-00)

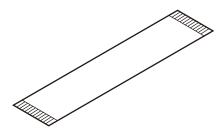


Test cable for microphone input (E30-3360-18)

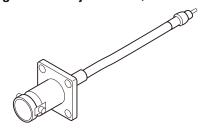


ADJUSTMENT

Flat cable (36-pin) about 256mm (E37-0979-05)



ANT Jig for BPF adjustment (E30-3418-08)



Test Signaling

■ Analog

No.	Decode tone	Encode tone
1	None	None
2	None	100Hz square wave
3	QT 67.0Hz	QT 67.0Hz
4	QT 151.4Hz	QT 151.4Hz
5	QT 210.7Hz	QT 210.7Hz
6	QT 254.1Hz	1QT 254.1Hz
7	DQT D023N	DQT D023N
8	DQT D754I	DQT D754I
9	None	CWID encode (ID: VVV)
10	None	Single tone
11	DTMF decode (Code: 159D)	DTMF encode (Code: 159D)
12	None	DTMF encode (Code: 9)
13	None	Courtesy tone

■ NXDN

No.	Decode tone	Encode tone
1	RAN1	RAN1
2	RAN1	PN9
3	RAN1	Maximum deviation pattern

- Signaling number 1 is used for link test with voice.
- Signaling number 2 is used for TX modulation signal quality test. i.e, TX adjacent channel power, FSK error, Occupied bandwidth, Emission mask, etc.
- Signaling number 3 is used for TX deviation test. If the modulation mode is very narrow, the modulation frequency is 600Hz. If the modulation mode is narrow, the modulation frequency is 1200Hz.

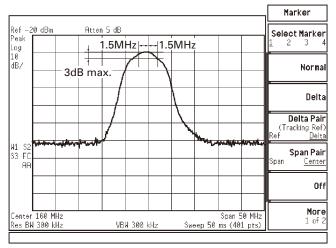


Fig. 1

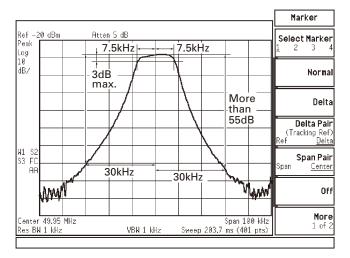


Fig. 2

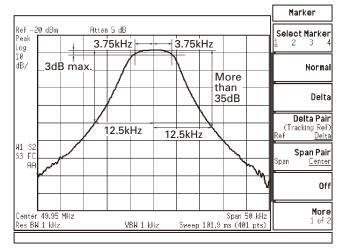
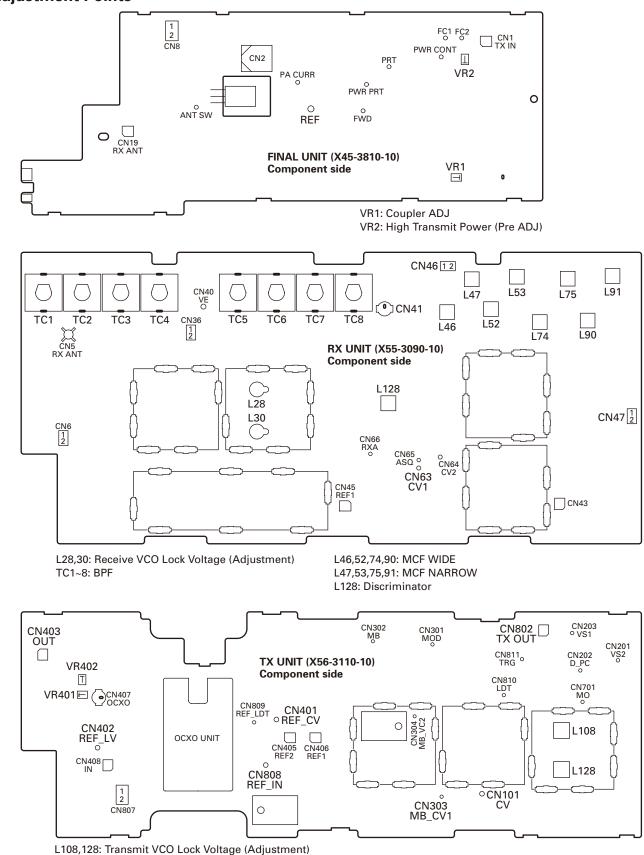


Fig. 3

Adjustment Points

VR401,402: Reference Signal



ADJUSTMENT

Alignment

		Mea	nt		Adj	ustment	Specifications / Remarks	
Item	Condition	Test- equipment	Unit	Terminal	Unit	Parts Method		
1. Setting	1) Connect the DC power output 2) Connect the front panel COM 3) Activate the FPU to go to the	to the rear port (D-sub				al port w	vith a cross cable.	
2. Temperature Sensor	1) Receive unit (Celsius or Fahrenheit)	Ther- mometer					Measuring room temperature, write the value with PC.	
	2) Transmit unit (Celsius or Fahrenheit)							
3. Driver Amplifier Power (Pre ADJ)	1) Low 2) Center 3) High					PC ADJ	Value: 1	Fixed value writing
4. RF Power Down Detection	1) High 2) Low					PC ADJ	Value: 1	Fixed value writing
5. Maximum Deviation	1) NXDN Narrow					PC ADJ	Value: 22800	Fixed value writing
(NXDN)	2) NXDN Very Narrow					7100	Value: 10000	
6. VCO Lock Voltage	1) REF Low SSG frequency : 10MHz SSG output: –10dBm (70.7mV)	SSG DVM	TX	REF IN REF CV			Check	1.5V or more
	2) REF High SSG frequency: 10MHz SSG output: +10dBm (708mV)							3.5V or less
	3) MOD Low SSG frequency: 10MHz SSG output: –10dBm (70.7mV)			REF IN MB_CV1	•			1.5V or more
	4) MOD High SSG frequency: 10MHz SSG output: +10dBm (708mV)							3.5V or less
7. Transmit VCO Lock Voltage	1) A: Low	DVM	TX	CV	TX	L128	Adjust the interval of the L128.	±0.05V
(Adjustment)	2) B: Low					L108	Adjust the interval of the L108.	±0.05V
8. Receive VCO Lock Voltage	1) A: Low	DVM	RX	CV1	RX	L28	Adjust the interval of the L28.	±0.05V
(Adjustment) Pre ADJ	2) B: Low					L30	Adjust the interval of the L30.	±0.05V
9. Fixation of Oscillation Coil	Apply the high-frequency varn Apply the high-frequency varn							
10. Transmit VCO Lock	1) A: High	DVM	TX	CV			Check	3.6~4.4V
Voltage (Check)	2) B: High							

		Mea	sureme	nt		Adj	justment	
Item	Condition	Test- equipment	Unit	Terminal	Unit	Parts	Method	Specifications / Remarks
11. Receive VCO Lock Voltage	1) A: Low	DVM PC	RX	CV1		PC ADJ	0.8V	±0.05V
(Adjustment & Check)	2) A: High						Check	4.0V or less
a driedky	3) B: Low					PC ADJ	0.8V	±0.05V
	4) B: High						Check	4.0V or less
12. Reference Signal The switch-	1) Connecting 50Ω load to SSG parallel. SSG frequency: 10MHz SSG output: +0dBm (224mV)	SSG Spectrum analyzer	Rear TX	REF IN REF OUT	TX	VR402	+8~+9dBm	The OCXO LED (orange) lights.
ing circuit to switch the OCXO and the internal refer-	2) SSG frequency: 10MHz SSG output: +0dBm (224mV)	SSG Oscilloscope	Rear TX	REF IN REV_LV		VR401	2.0Vp-p	
ence oscilla- tion	3) SSG frequency: 10MHz SSG output: +10dBm (708mV)	SSG Spectrum analyzer	Rear TX	REF IN REF OUT			Check	REF OUT: +10dBm or less The OCXO LED (orange) lights.
	4) SSG frequency: 10MHz SSG output: -10dBm (70.7mV)							REF OUT: -50dBm or less The OCXO LED goes off.
13. VCXO	Confirm that there is no OCXO and external reference input.	F. counter PC	TX	REF_IN		PC ADJ	5.99MHz+0.3ppm	±0.15ppm (5.99000270~5.99000090MHz)
14. BPF	1) Tracking generator Output: -20dBm Spectrum analyzer Frequency: Desired frequency Span: 50MHz	Tracking generator Spectrum analyzer	Rear RX	RX ANT CN41	RX	TC1~ TC8	Center frequency you are using, then adjust it to look like the wave in figure 1.	Refer to Fig. 1. (Page 72)
15. MCF	1) Wide Tracking generator Output: –20dBm Spectrum analyzer Frequency: 49.95MHz Span: 100kHz	Tracking generator Spectrum analyzer	Rear RX	CN46 CN47	RX	L46 L52 L74 L90	Adjust it to look like the wave in figure 2.	Refer to Fig. 2. (Page 72)
	2) Narrow Spectrum analyzer Span: 50kHz					L47 L53 L75 L91	Adjust it to look like the wave in figure 3.	Refer to Fig. 3. (Page 72)
16. Discriminator	1) Narrow Frequency: Desired frequency SSG output: –53dBm (501μV) SSG MOD: 1kHz SSG DEV: 1.5kHz AF output: 2V/4Ω	SSG AF V.M	Rear	RX ANT TEST/ SPKR jack SPO (pin 12) 4Ω load	RX	L128	Adjust AF output max.	
17. Driver Amplifier Power	Disconnect the cable from TX OUT and insert a cable from power meter. After the adjustment, connect the cable to TX OUT. 1) Low 2) Center 3) High	Power meter	TX	TX OUT (CN802)		PC ADJ	+20.0dBm	±0.1dBm

	Condition	Mea	sureme	ent		Ad	justment	
ltem		Test- equipment	Unit	Terminal	Unit Parts Method			Specifications / Remarks
18. High Transmit	1) Low	Power meter PC	Rear	TX ANT		PC ADJ	Value: 1024	Fixed value writing
Power (Pre ADJ)					Final	VR2	5.0W	±0.1W
19. Coupler ADJ	1) Low	DVM Power meter	Final	REF	Final	VR1	0.09~0.14V (Adjust to the minimum value if it is not reduced to 0.14V.)	
20. High Transmit	1) Low	Power meter PC	Rear	TX ANT		PC ADJ	Value: 1024	Fixed value writing
Power (Max power limit ADJ)					Final	VR2	8.0W	±0.2W
IIMIT ADJ)	2) High					PC ADJ	Value: 1024	Fixed value writing
							Check	7.0W or more
21. High Transmit Power	Frequency 1) Low 2) Center 3) High Attach the EXCITER/FINAL shield cover.	Power meter Ammeter	Rear	TX ANT		PC ADJ	5.0W	±0.1W 4.4A or less
22. Low Transmit Power	Frequency 1) Low 2) Center 3) High Attach the EXCITER/FINAL shield cover.						0.50W	±0.01W 3.3A or less
23. Deviation (The transmission VCO band is separated into A and B. 3-points for each, i.e., total of 6-points shall be adjusted.)	NXDN Very Narrow Connect the deviation meter to the TX ANT end via the ATT. Deviation meter setting HPF: OFF LPF: 15kHz De-emp: OFF Detector: (p-p)/2 1) 100Hz Square Signal/A: Low 2) 100Hz Square Signal/A: Center 3) 100Hz Square Signal/A: High 4) 100Hz Square Signal/B: Low 5) 100Hz Square Signal/B: Center 6) 100Hz Square Signal/B: High	Deviation meter Oscilloscope PC	Rear	TX ANT		PC ADJ	±1.10kHz Adjust it into clean square wave with changing "Sub- audible Gain" and "Audible Gain".	±0.05kHz
	NXDN Narrow Connect the deviation meter to the TX ANT end via the ATT. Deviation meter setting HPF: OFF LPF: 15kHz De-emp: OFF Detector: +peak, -peak 1) Max Deviation Pattern/ Frequency channel: 1 (Low) 2) Max Deviation Pattern/ Frequency channel: 2 (High) 3) Max Deviation Pattern/ Frequency channel: 3 (Center) (Note: PC test mode)						Check	±3.06kHz±0.10kHz Clean sine wave.

		Mea	sureme	nt		Ad	justment	
Item	Condition	Test- equipment	Unit	Terminal	Unit	Parts	Method	Specifications / Remarks
24. RD Level	1) Analog Wide Connect the SSG to the RX ANT. SSG setting Frequency: Desired frequency Output: -53dBm (501µV) MOD: 1kHz DEV: ±3.0kHz	SSG AF V.M	Rear	RX ANT CONTROL I/O jack RD (pin 10)		PC ADJ	80mV	±5mV
	2) Analog Narrow SSG setting DEV: ±1.5kHz							
25. RA Level	1) Analog Wide Connect the SSG to the RX ANT. SSG setting Frequency: Desired frequency Output: -53dBm (501µV) MOD: 1kHz DEV: ±3.0kHz	SSG AF V.M	Rear	RX ANT CONTROL I/O jack RA (pin 11)		PC ADJ	400mV	±20mV
	2) Analog Narrow SSG setting DEV: ±1.5kHz							
26. Receiver Sensitivity Check	1) Wide Connect the SSG to the RX ANT. SSG setting Frequency: Desired frequency MOD: 1kHz DEV: ±3.0kHz AF: 0.45V/4Ω	SSG Distortion meter	Rear	RX ANT TEST/ SPKR jack SPO (pin 12) 4Ω load			Check	–115dBm (0.4μV) or less
	2) Narrow SSG setting DEV: ±1.5kHz							
27. Tight Squelch	1) Analog Wide Connect the SSG to the RX ANT. SSG setting Frequency: Desired frequency Output: 12dB SINAD level +7dB MOD: 1kHz DEV: ±3.0kHz	SSG Oscilloscope	Rear	RX ANT TEST/ SPKR jack SPO (pin 12) 4Ω load		PC ADJ	Adjust it to the level to open the squelch.	
	2) SSG output: OFF						Check	The squelch shall be closed.
	3) Analog Narrow SSG setting DEV: ±1.5kHz					PC ADJ	Adjust it to the level to open the squelch.	
	4) SSG output: OFF						Check	The squelch shall be closed.
28. Open Squelch	1) Analog Wide Connect the SSG to the RX ANT. SSG setting Frequency: Desired frequency Output: 12dB SINAD level –2dB MOD: 1kHz DEV: ±3.0kHz	SSG Oscilloscope	Rear	RX ANT TEST/ SPKR jack SPO (pin 12) 4Ω load		PC ADJ	Adjust it to the level to open the squelch.	

		Mea	asureme	ent		Ad	justment	
ltem	Condition	Test- equipment	Unit	Terminal	Unit	Parts	Method	Specifications / Remarks
	2) SSG output: OFF	SSG	Rear	RX ANT			Check	The squelch shall be closed.
	3) Analog Narrow SSG setting DEV: ±1.5kHz	Audio analyzer		TEST/ SPKR jack SPO (pin 12)	KR SPO	PC ADJ	Adjust it to the level to open the squelch.	
	4) SSG output: OFF			4Ω load			Check	The squelch shall be closed.
29. RSSI	Connect the SSG to the RX ANT. SSG setting Frequency: Desired frequency MOD: 1kHz DEV: ±1.5kHz Narrow 1) SSG output: –53dBm (501µV)	SSG AF V.M	Rear	RX ANT TEST/ SPKR jack RSSI (pin 8)		PC ADJ	3.5V	±0.1V
	2) High Level SSG output : 12dB SINAD level +7dB						Import the value to a PC.	
	3) Low Level SSG output : 12dB SINAD level –2dB							
30. Maximum Deviation (Analog)	etion Connect the deviation meter mog) to the TX ANT end via the A	Deviation meter AG DVM	Rear Front	TX ANT MIC		PC ADJ	±4.1kHz	±0.2kHz
	2) Analog Narrow Connect the deviation meter to the TX ANT end via the ATT. AG setting : 1kHz/55mVrms (Sine wave, Terminal load)						±1.7kHz	±0.1kHz
31. Standard Modulation Check	1) Analog Wide Connect the deviation meter to the TX ANT end via the ATT. Deviation meter setting HPF: OFF LPF: 15kHz De-emp: OFF Detector: (p-p)/2 AG setting : 1kHz/±3kHz DEV (Sine wave, Terminal load)	Deviation meter AG DVM	Rear Front	TX ANT MIC			Check	4.5mV±1.5mV
	2) Analog Narrow Connect the deviation meter to the TX ANT end via the ATT. AG setting : 1kHz/±1.5kHz DEV (Sine wave, Terminal load)							5.5mV±1.5mV

		Mea	sureme	nt		Adj	ustment	
Item	Condition	Test- equipment	Unit	Terminal	Unit	Parts	Method	Specifications / Remarks
32. QT Deviation	1) Analog Wide Connect the deviation meter to the TX ANT end via the ATT. Deviation meter setting HPF: OFF LPF: 3kHz De-emp: OFF Detector: p-p/2	Deviation meter	Rear	TX ANT		PC ADJ	±0.75kHz	±0.05kHz
	2) Analog Narrow						±0.35kHz	±0.05kHz
33. DQT Deviation	1) Analog Wide Connect the deviation meter to the TX ANT end via the ATT. Deviation meter setting HPF: OFF LPF: 3kHz De-emp: OFF Detector: Peak hold	Deviation meter	Rear	TX ANT		PC ADJ	±0.75kHz	±0.05kHz
	2) Analog Narrow						±0.35kHz	±0.05kHz
34. CW ID Deviation	1) Analog Wide Connect the deviation meter to the TX ANT end via the ATT. Deviation meter setting HPF: OFF LPF: 15kHz De-emp: OFF Detector: +peak, -peak	Deviation meter	Rear	TX ANT		PC ADJ	±2.00kHz	±0.05kHz
	2) Analog Narrow						±1.00kHz	±0.05kHz
35. Test Tone Deviation	1) Analog Wide Connect the deviation meter to the TX ANT end via the ATT. Deviation meter setting HPF: OFF LPF: 15kHz De-emp: OFF Detector: (p-p)/2	Deviation meter	Rear	TX ANT		PC ADJ	±3.00kHz	±0.05kHz
	2) Analog Narrow						±1.50kHz	±0.05kHz
36. DTMF Deviation	1) Analog Wide Connect the deviation meter to the TX ANT end via the ATT. Deviation meter setting HPF: OFF LPF: 15kHz De-emp: OFF Detector: (p-p)/2 2) Analog Narrow	Deviation meter	Rear	TX ANT		PC ADJ	±2.85kHz ±1.50kHz	±0.05kHz

		Mea	sureme	ent		Adj	justment	
Item	Condition	Test- equipment	Unit	Terminal	Unit	Parts	Method	Specifications / Remarks
37. Courtesy Tone Deviation	1) Analog Wide Connect the deviation meter to the TX ANT end via the ATT. Deviation meter setting HPF: OFF LPF: 15kHz De-emp: OFF Detector: (p-p)/2	Deviation meter	Rear	TX ANT		PC ADJ	±1.00kHz	±0.05kHz
	2) Analog Narrow						±0.50kHz	±0.05kHz
38. TD Deviation	1) Analog Wide Connect the deviation meter to the TX ANT end via the ATT. Deviation meter setting HPF: OFF LPF: 3kHz De-emp: OFF Detector: +peak, -peak AG setting : 0.1kHz/0.5Vp-p (177mVrms)	Deviation meter AG DVM	Rear	TX ANT CONTROL I/O jack TD (pin 8)		PC ADJ	±0.75kHz	±0.02kHz
	2) Analog Narrow						±0.75kHz	±0.02kHz
39. Transmit Audio Input (TA)	1) Analog Wide Connect the deviation meter to the TX ANT end via the ATT. Deviation meter setting HPF: off LPF: 15kHz De-emp: off Detector: +peak, -peak AG setting : 1kHz/280mVrms	Deviation meter AG DVM	Rear	TX ANT CONTROL I/O jack TA (pin 9)		PC ADJ	±3.00kHz	±0.03kHz
	2) Analog Narrow						±1.50kHz	±0.02kHz
40. Repeater Gain	1) Analog Wide Connect the SSG to the RX ANT. SSG setting Frequency: Desired frequency Output: -53dBm (501µV) MOD: 1.0kHz DEV: ±1.0kHz Connect the deviation meter to the TX ANT end via the ATT. Deviation meter setting HPF: OFF LPF: 15kHz De-emp: OFF Detector: +peak, -peak	SSG Deviation meter	Rear	RX ANT TX ANT		PC ADJ	±1.00kHz	±0.10kHz
		-					±1.00kHz	±0.10kHz

Adjustment for KXK-3 (OCXO unit)

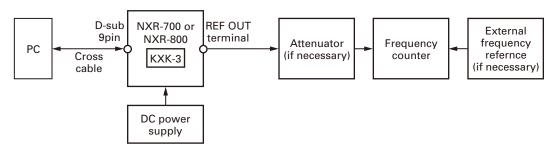
We recommend that the frequency adjustment be checked each time the radio is serviced, or at least once per year. Maintenance should only be performed under normal temperatures.

■ Test Equipment Required for Alignment

Test Equipment	Major Sp	ecifications
1. Frequency Counter	Frequency Range	Up to 50MHz
	Resolution	9 digits
	Reference Frequency Accuracy	Smaller than 0.01ppm
	Input level	Up to 5Vpp

■ Adjustment Setup

The KXK-3 OCXO unit must be mounted on the NXR-700 or NXR-800 repeater. Adjustment setup is shown as follows.



To adjust the KXK-3 OCXO unit, some preparations are required.

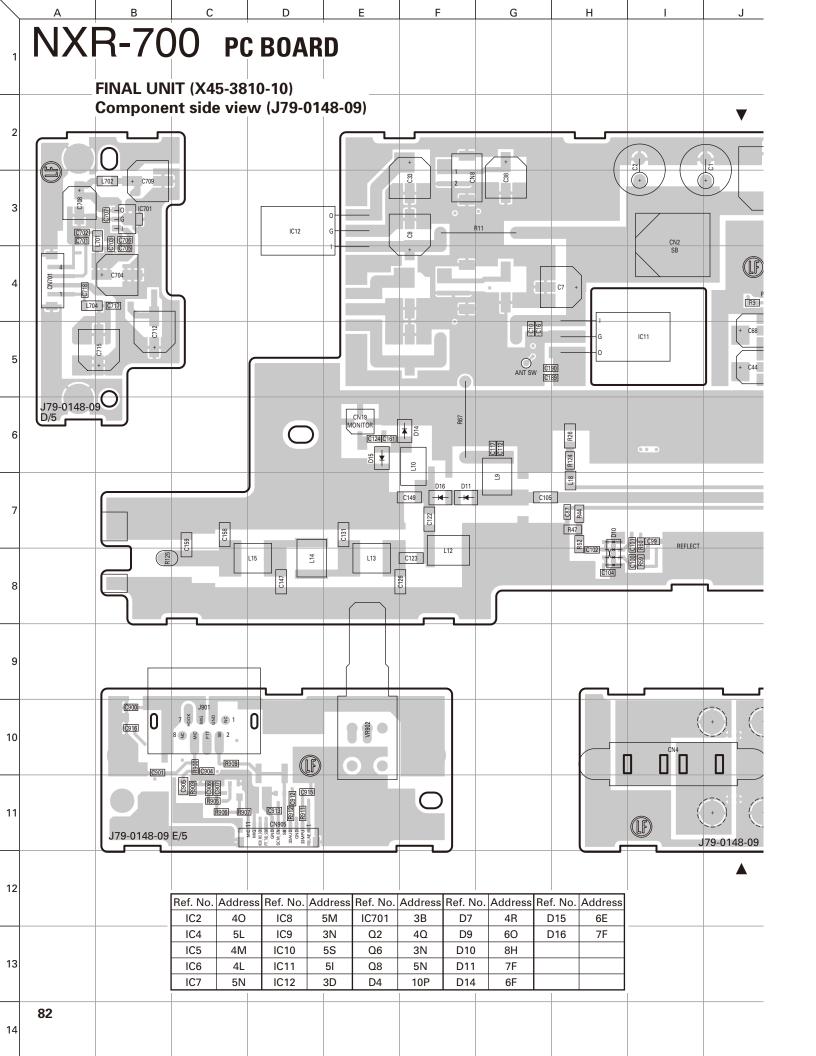
- 1. The NXR-700 or NXR-800 with the KXK-3 OCXO unit must be warmed up at least 24 hours before the adjustment is made. The environment temperature must be stable.
- 2. The frequency counter (or reference oscillator) must be warmed up as defined by the equipment manufacturer.

■ Adjustment

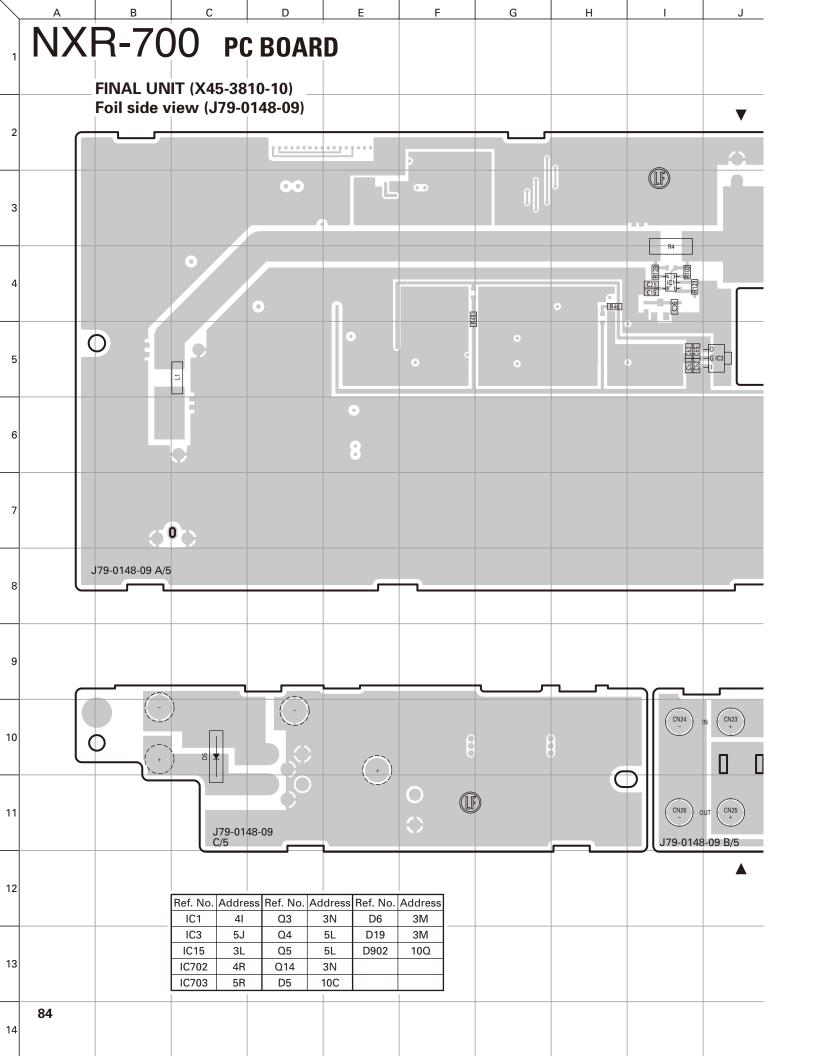
		Mea	asureme	ent		Adjus	Specifications /	
ltem	Condition	Test- equipment	Unit	Terminal	Unit	Parts	Method	Remarks
1. Setting	1) Connect the DC power outpu 2) Connect the "REF OUT" term 3) Warm-up the equipment and 4) Connect the front panel COM 5) Activate the FPU to go to the	ninal to the fr KXK-3 prope port (D-sub	requenc rly.	y counter.		ial port with	a cross cable.	
2. OCXO frequency adjustment		f. counter	Rear	REF OUT		PC ADJ		±0.15ppm 9.99999850MHz~ 10.00000150MHz

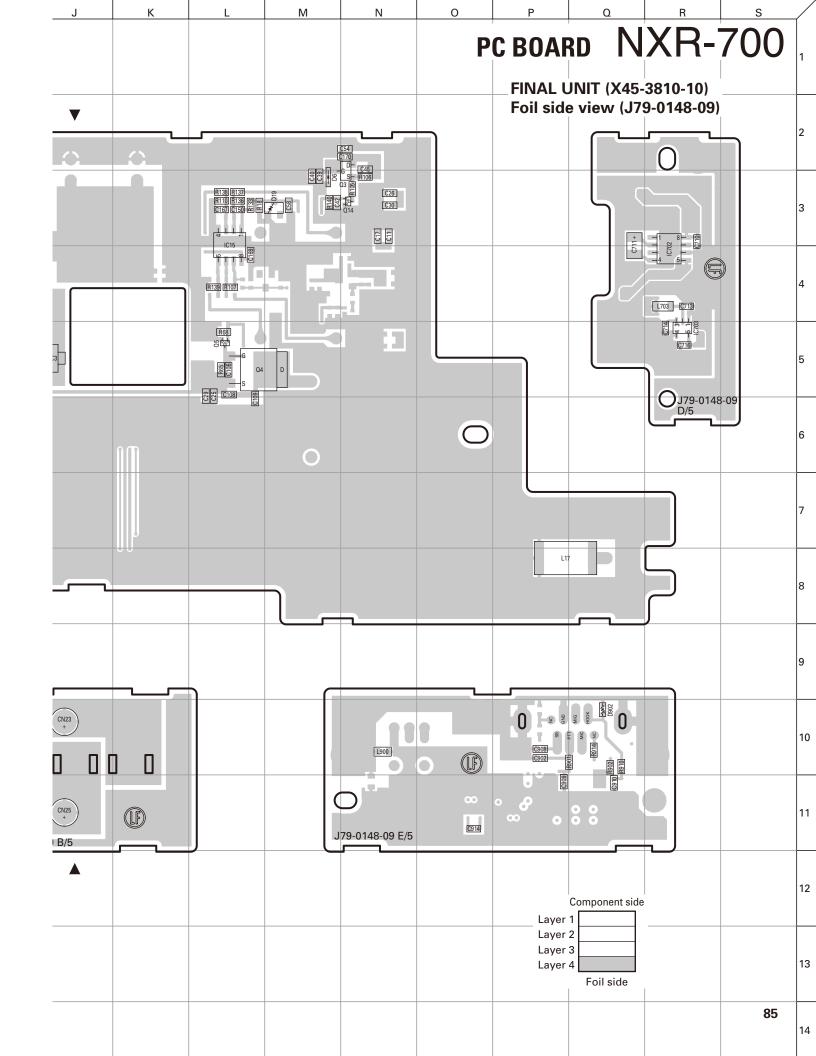
Note

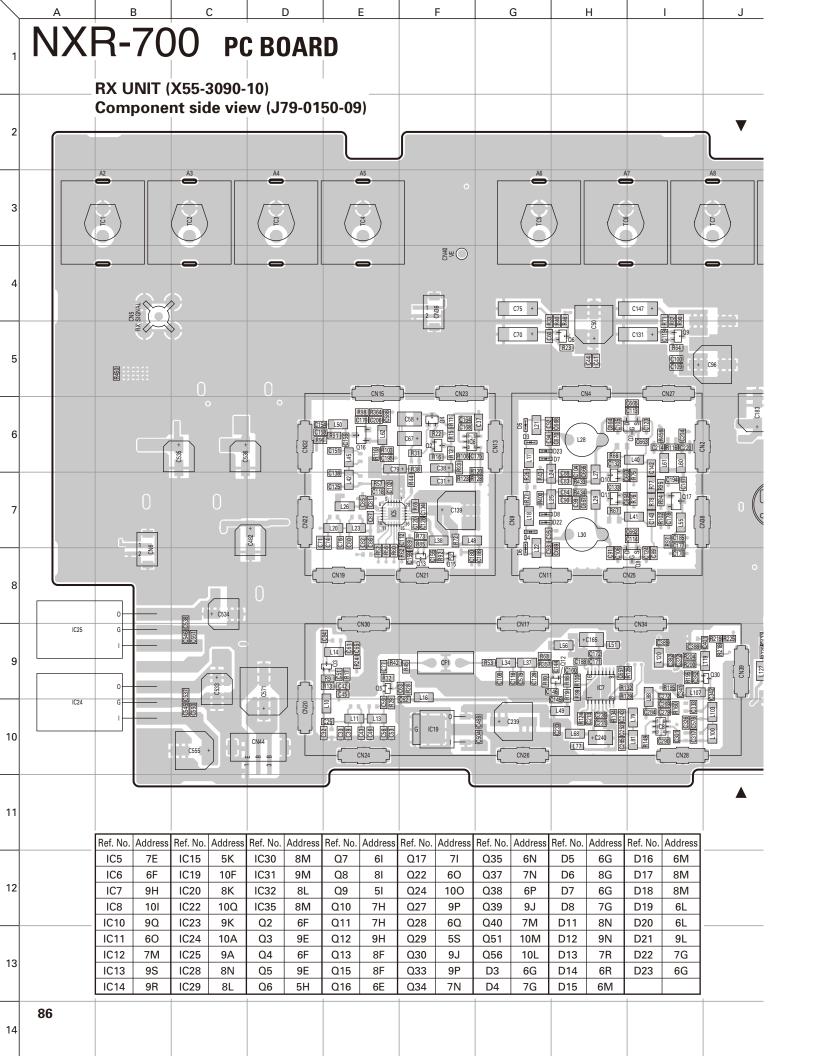
Adjusted data is stored in the KXK-3 internal memory, therefore no re-adjustment is required when the adjusted KXK-3 is moved to another NXR-700 or NXR-800.



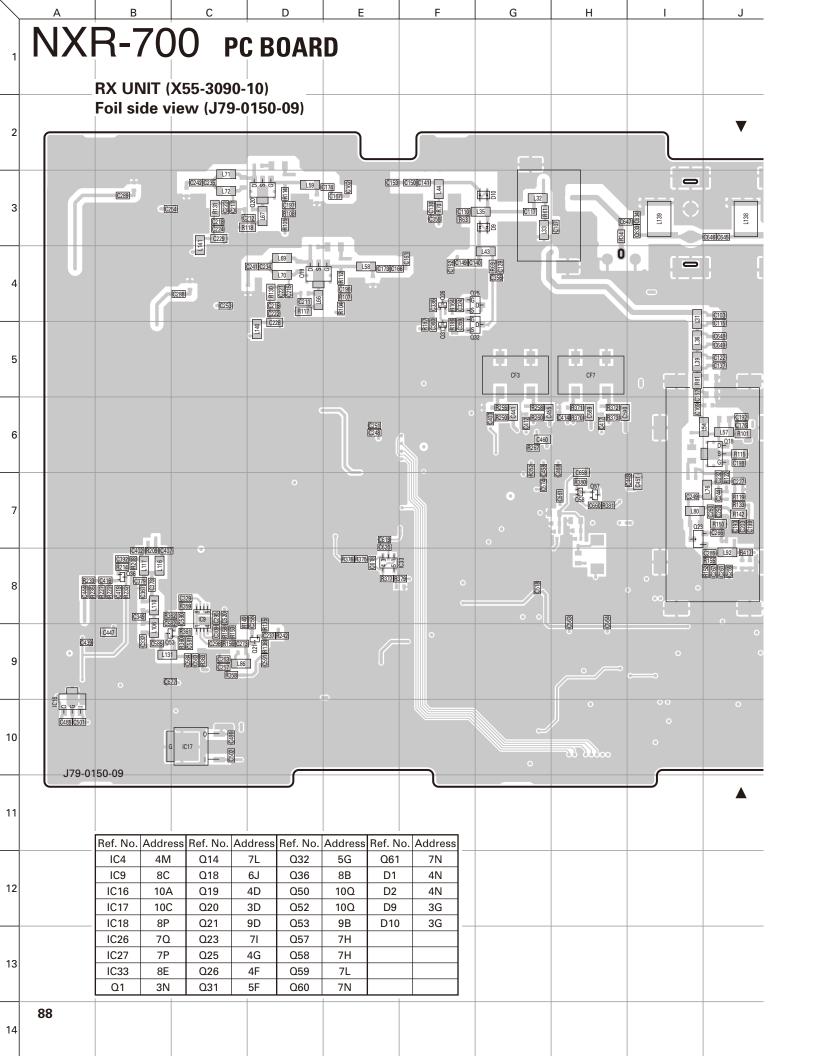


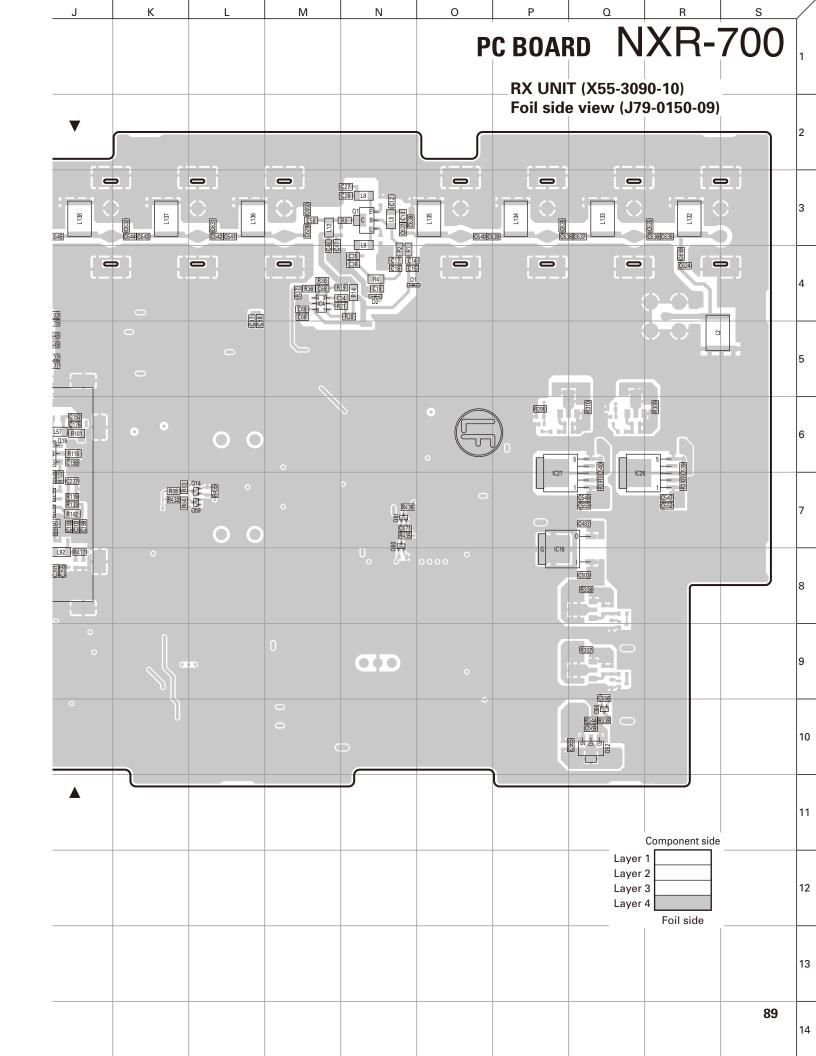


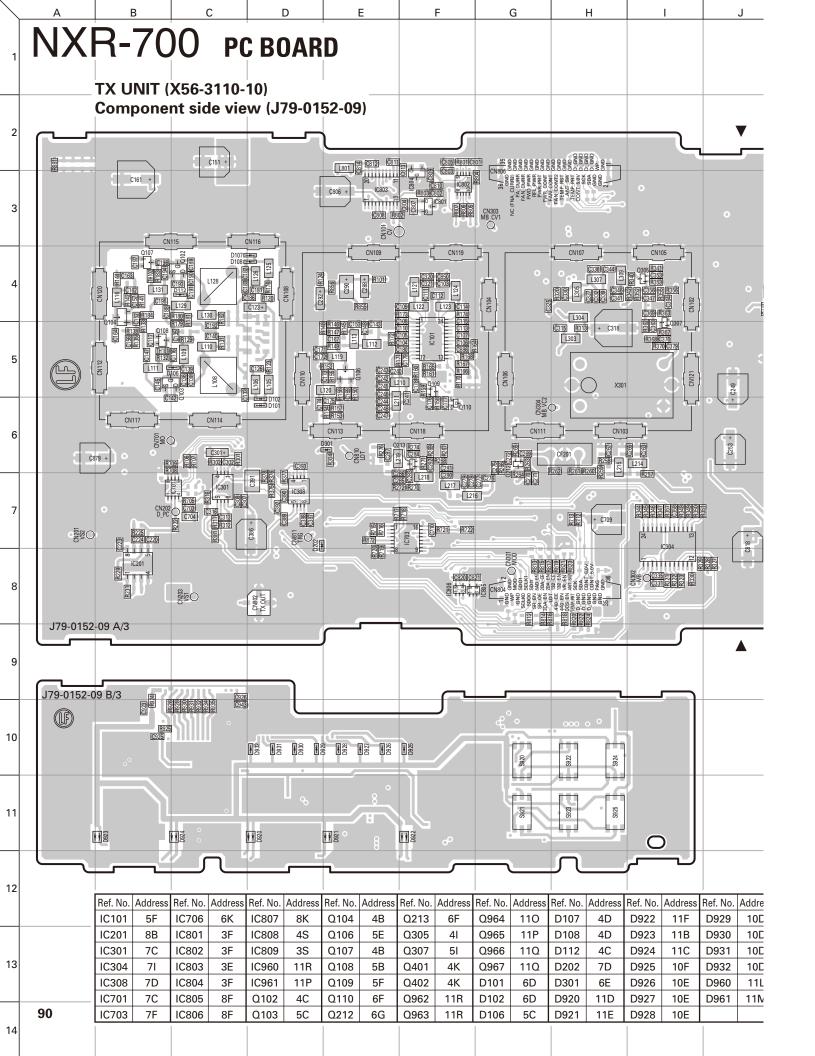


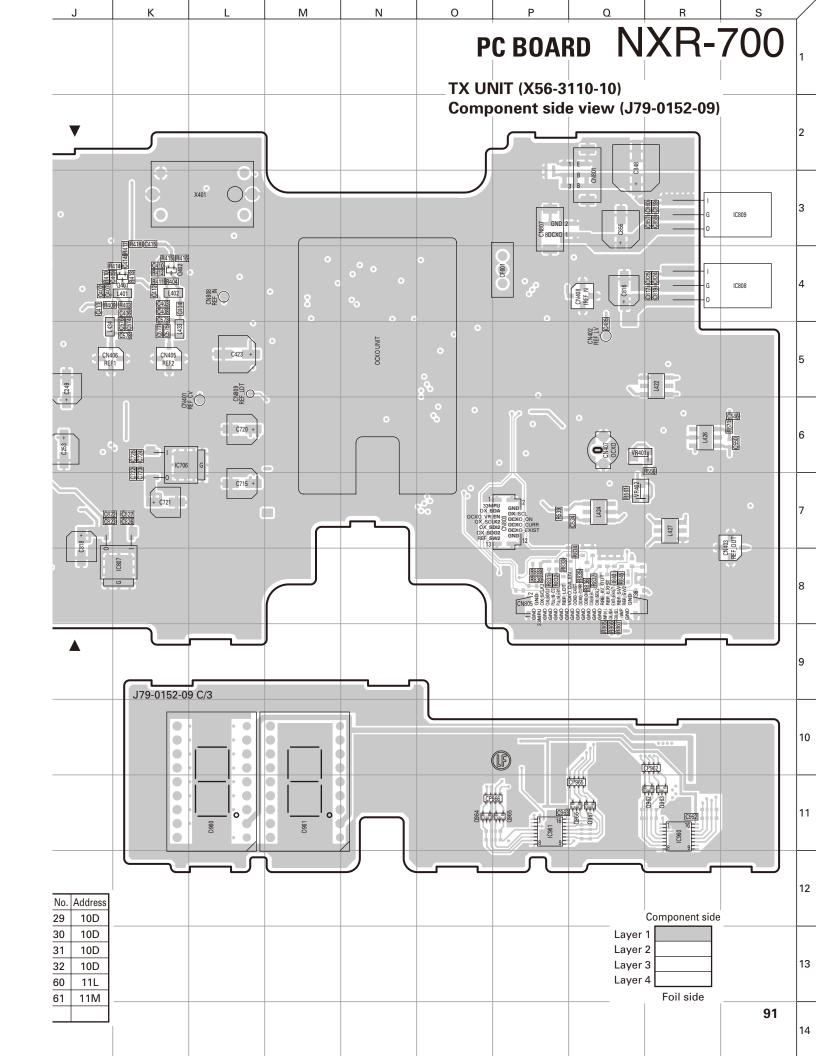


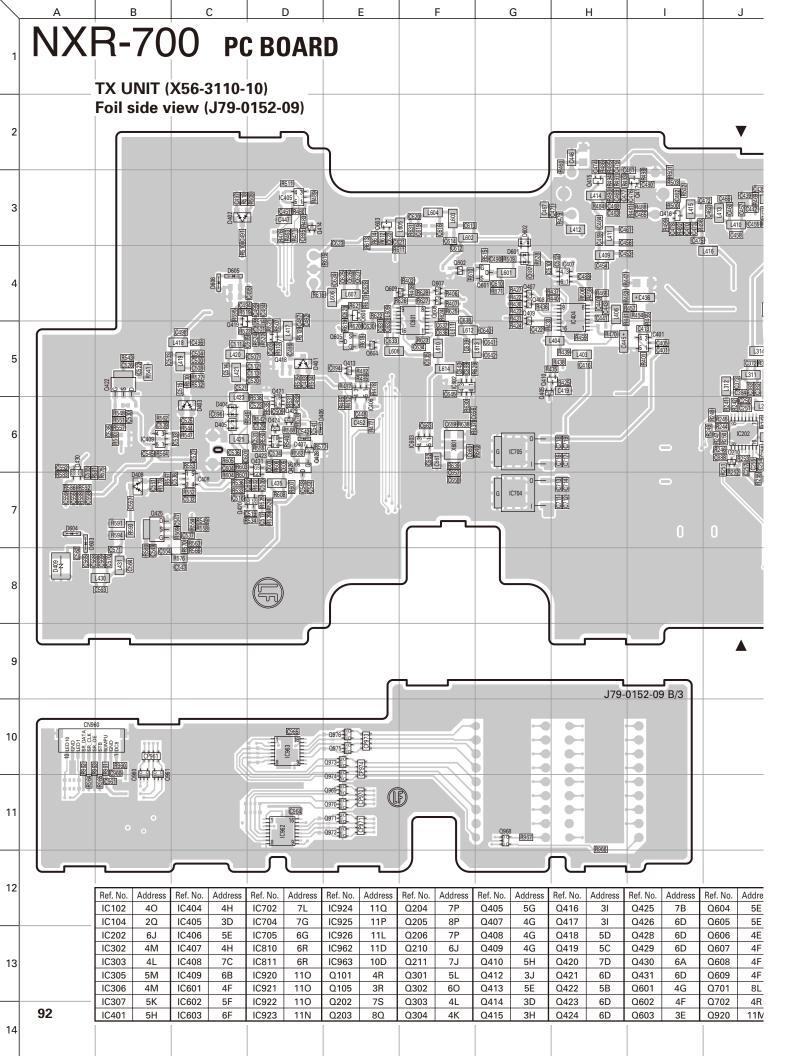




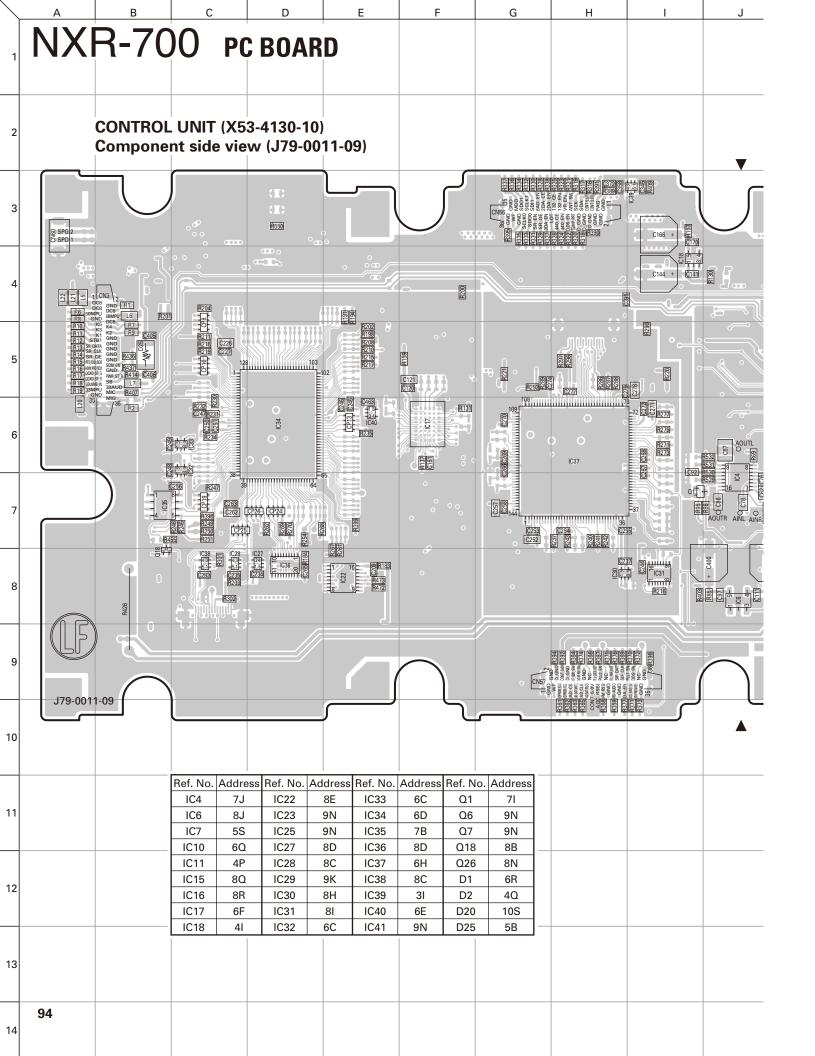


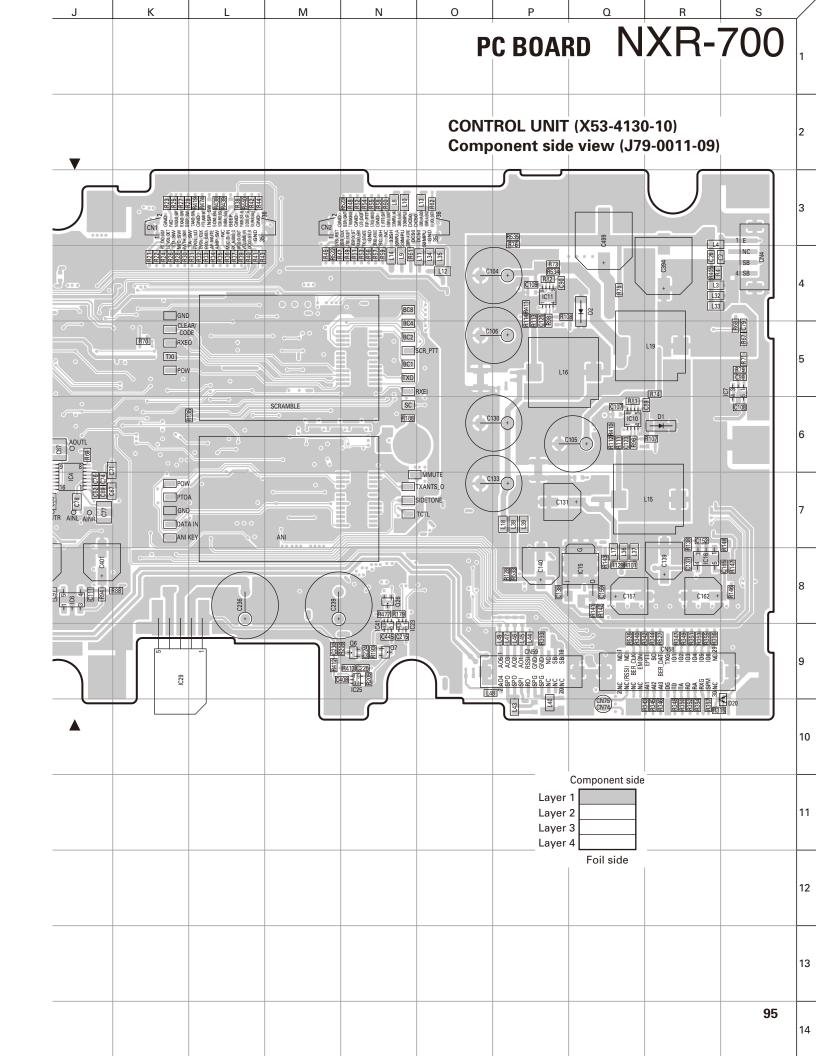


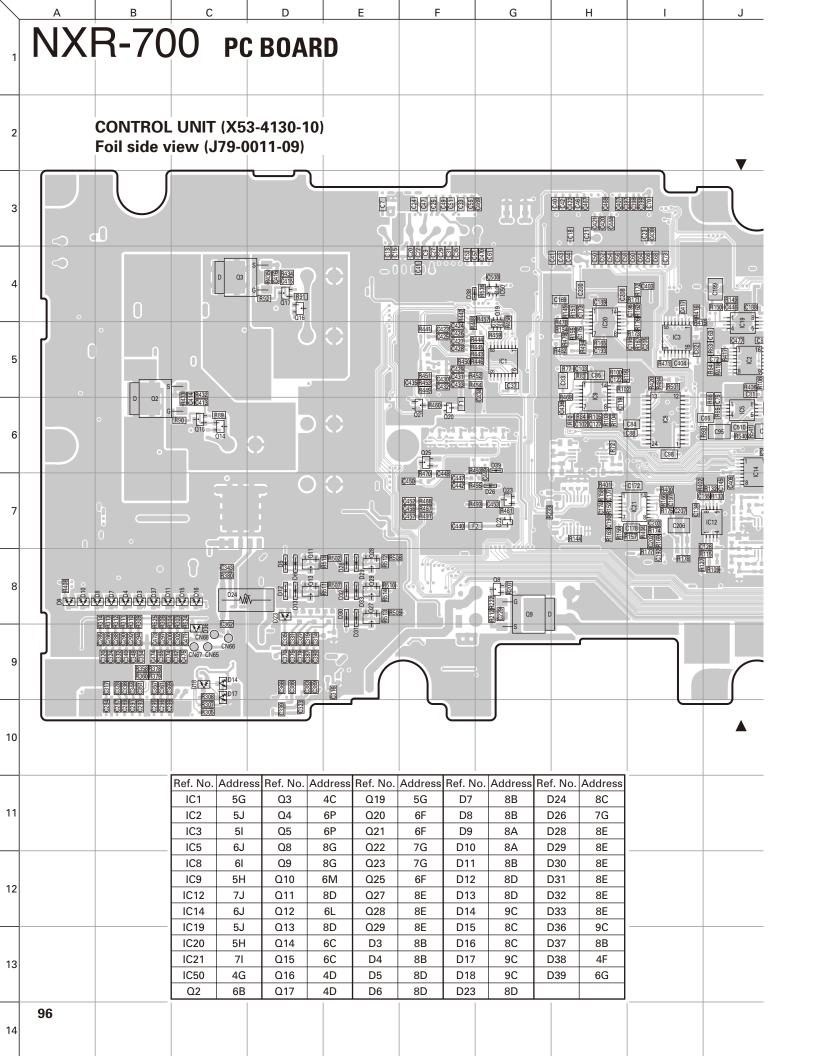


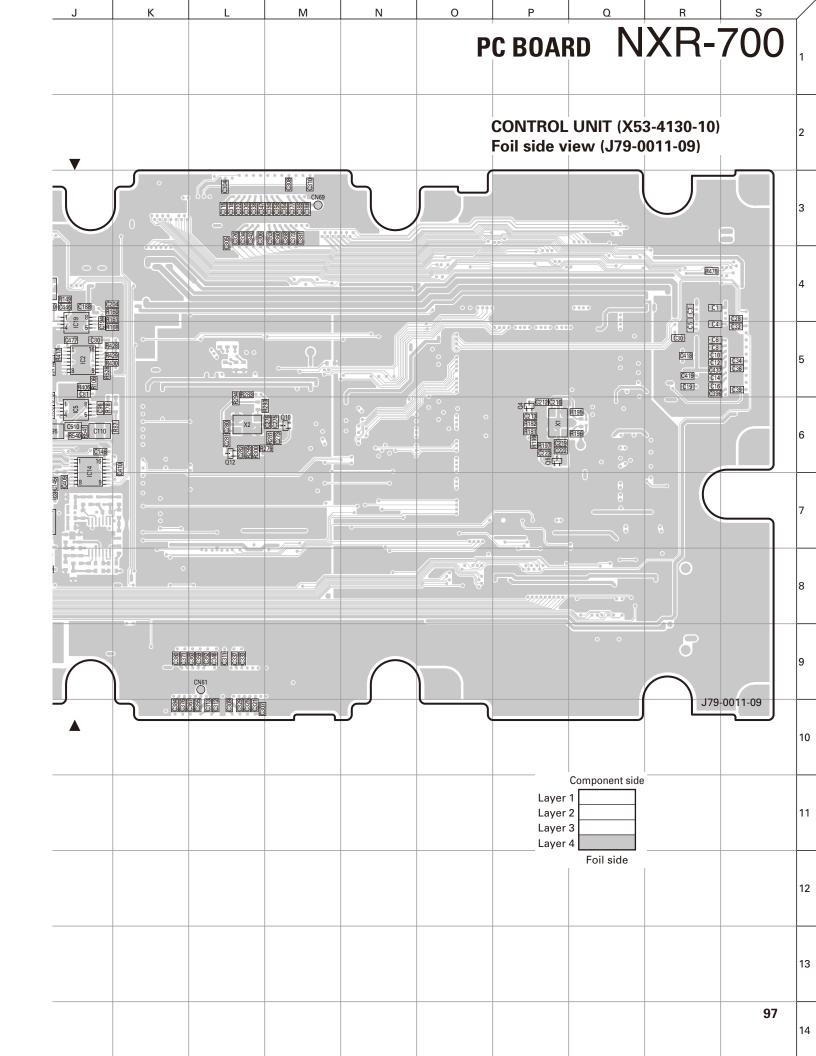


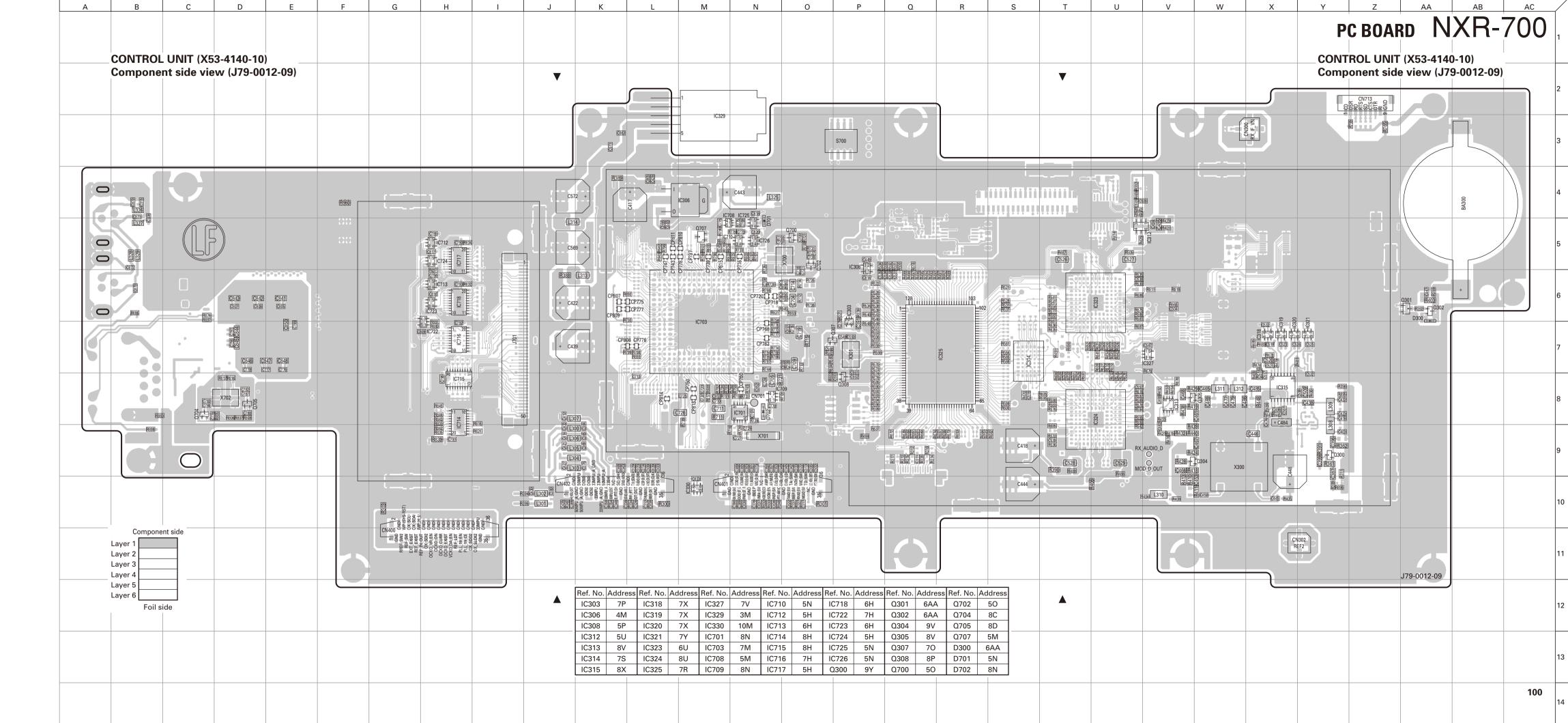


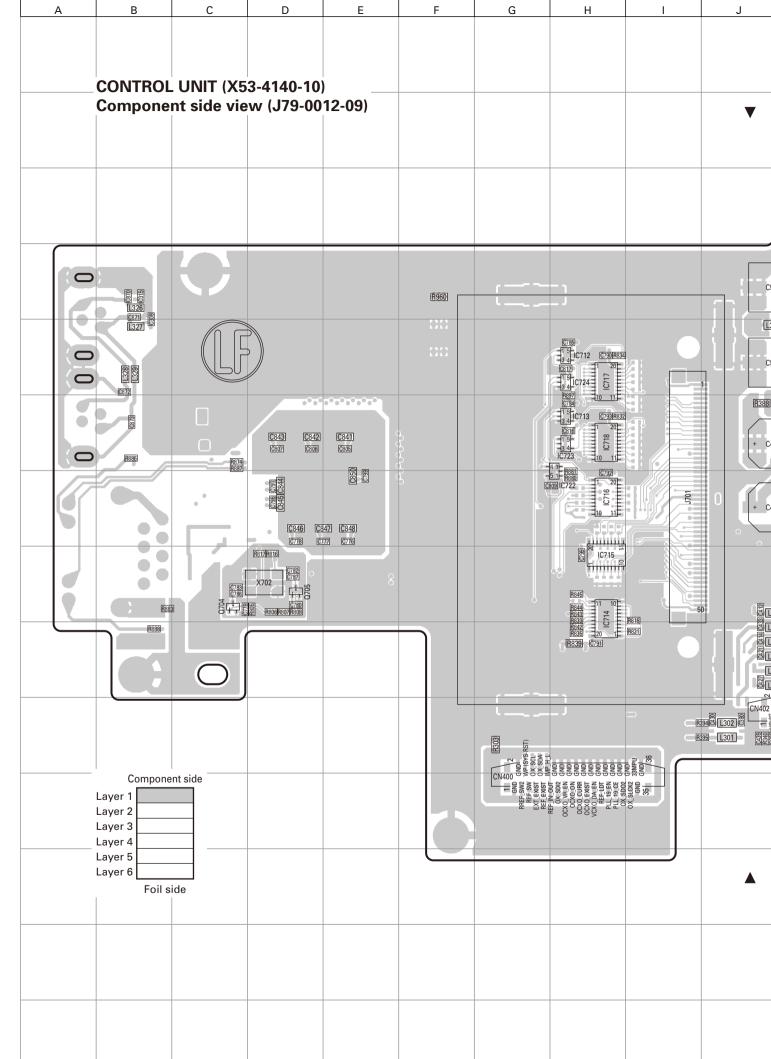


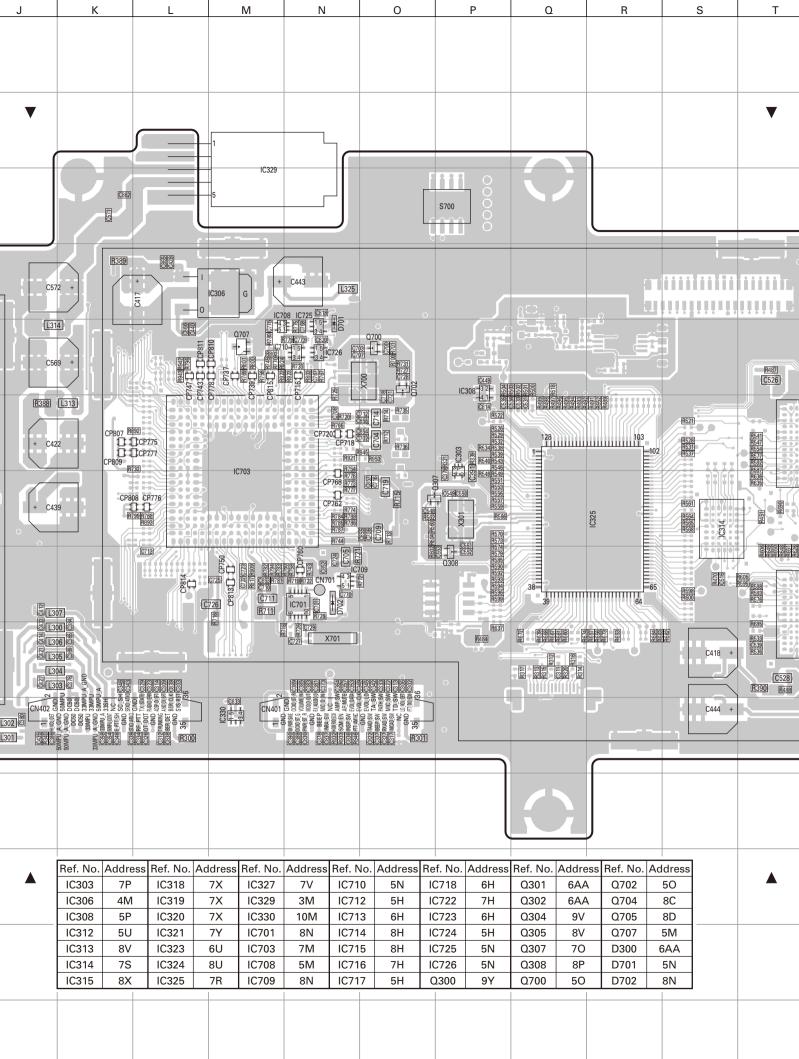


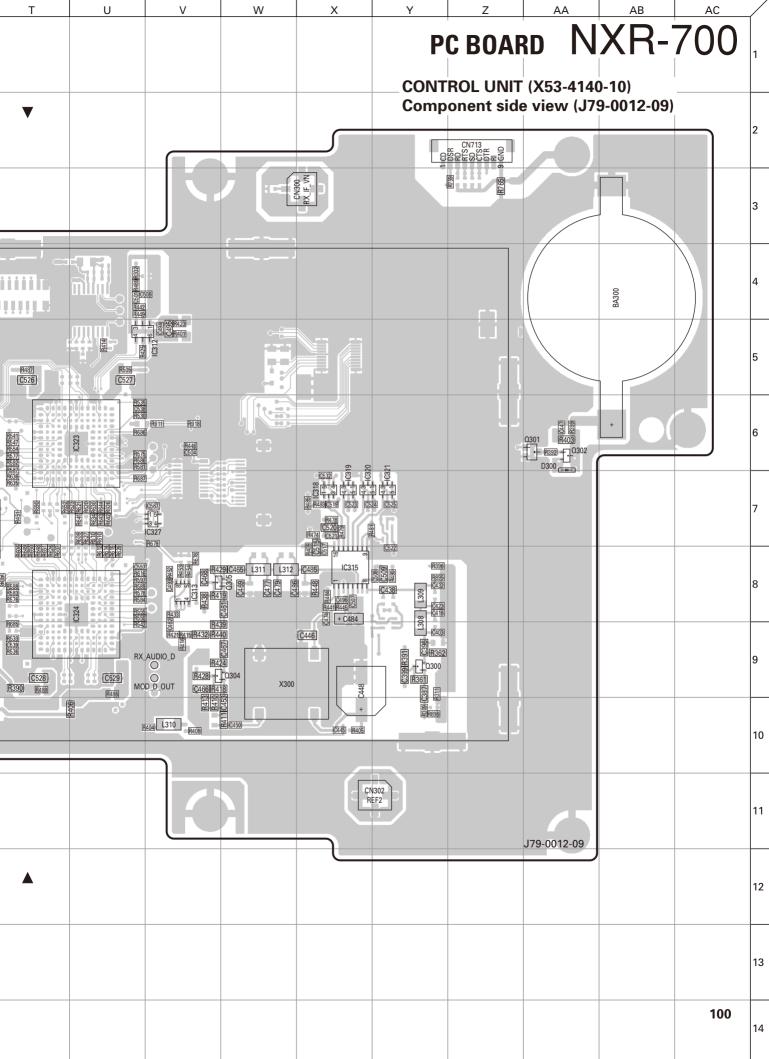


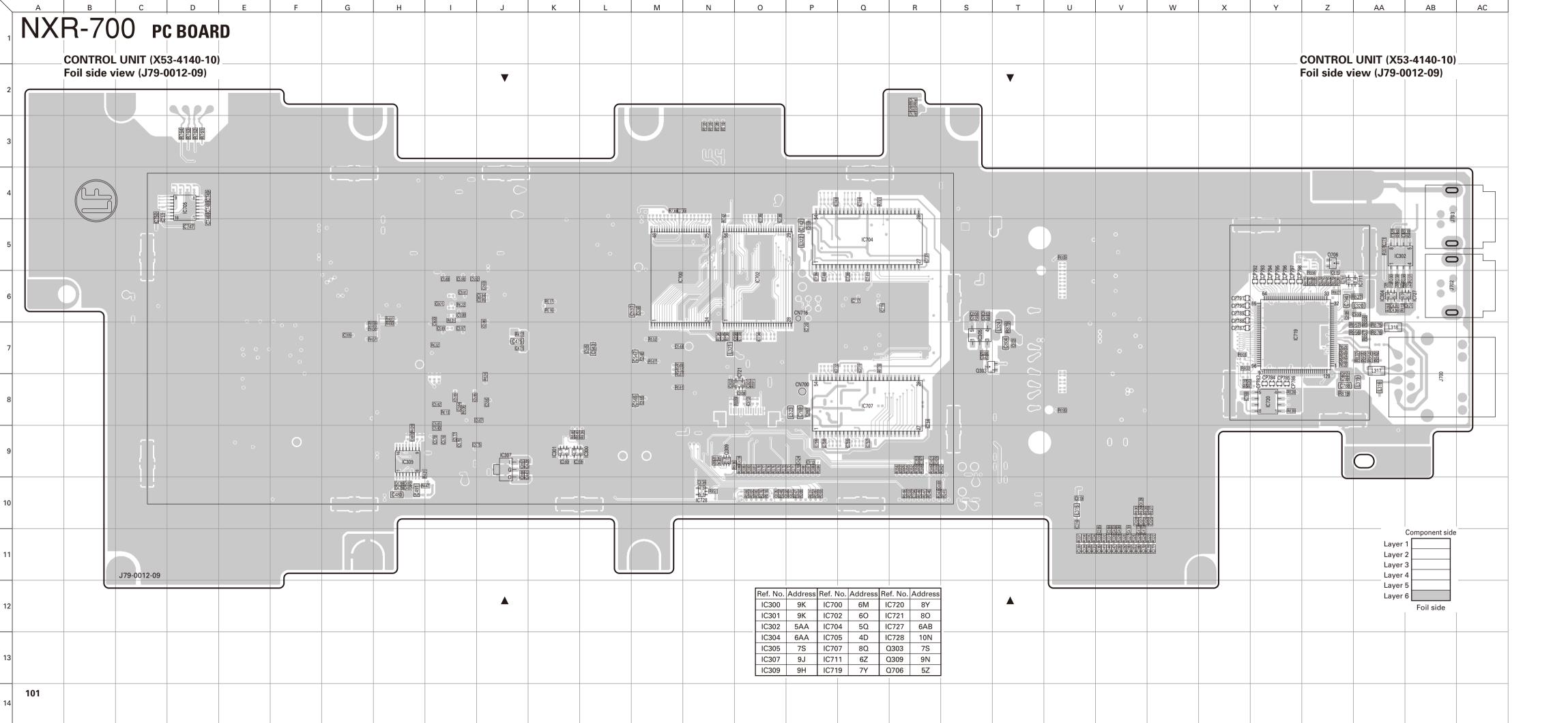


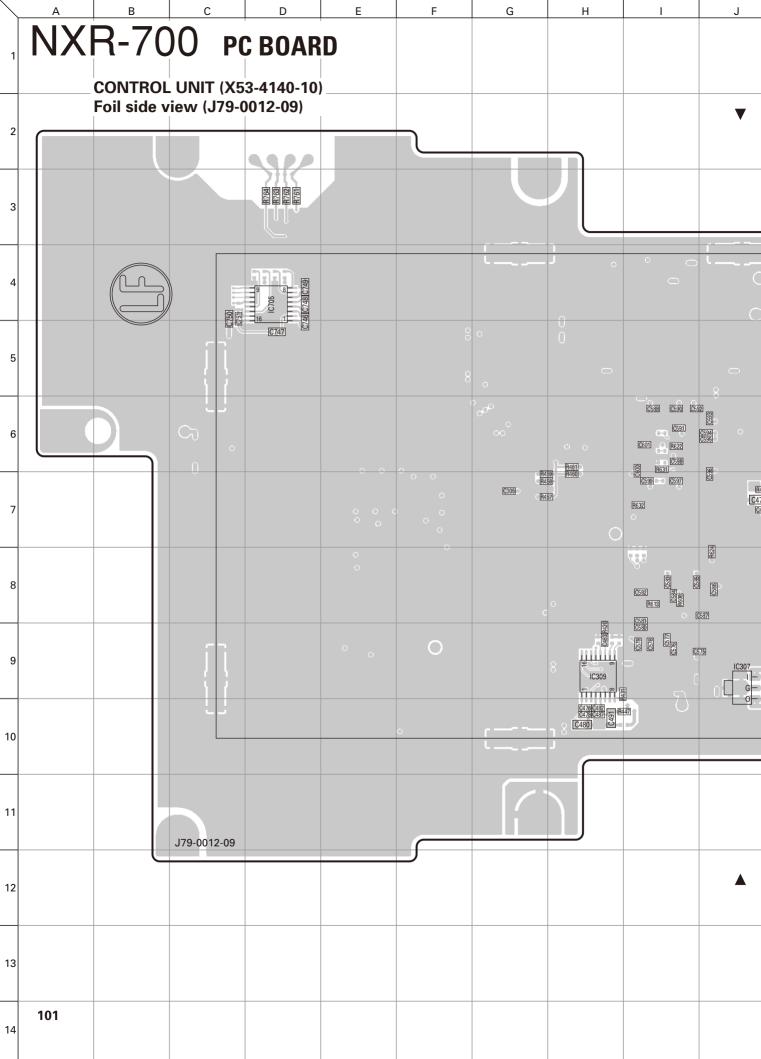


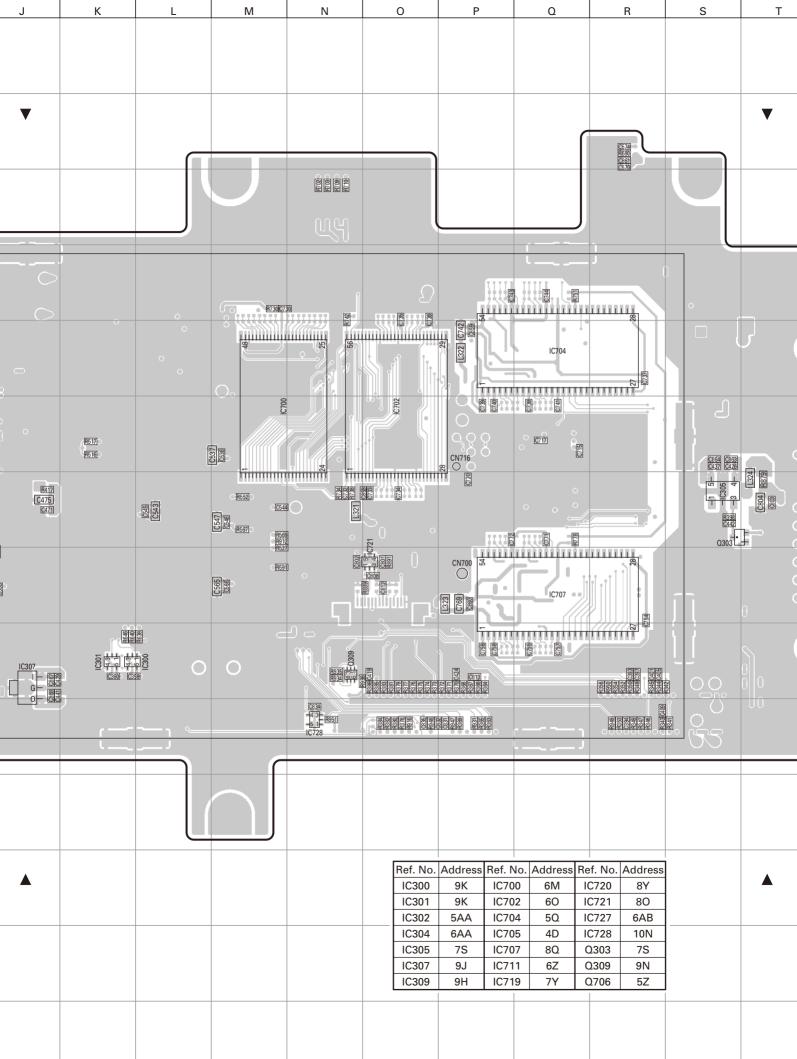


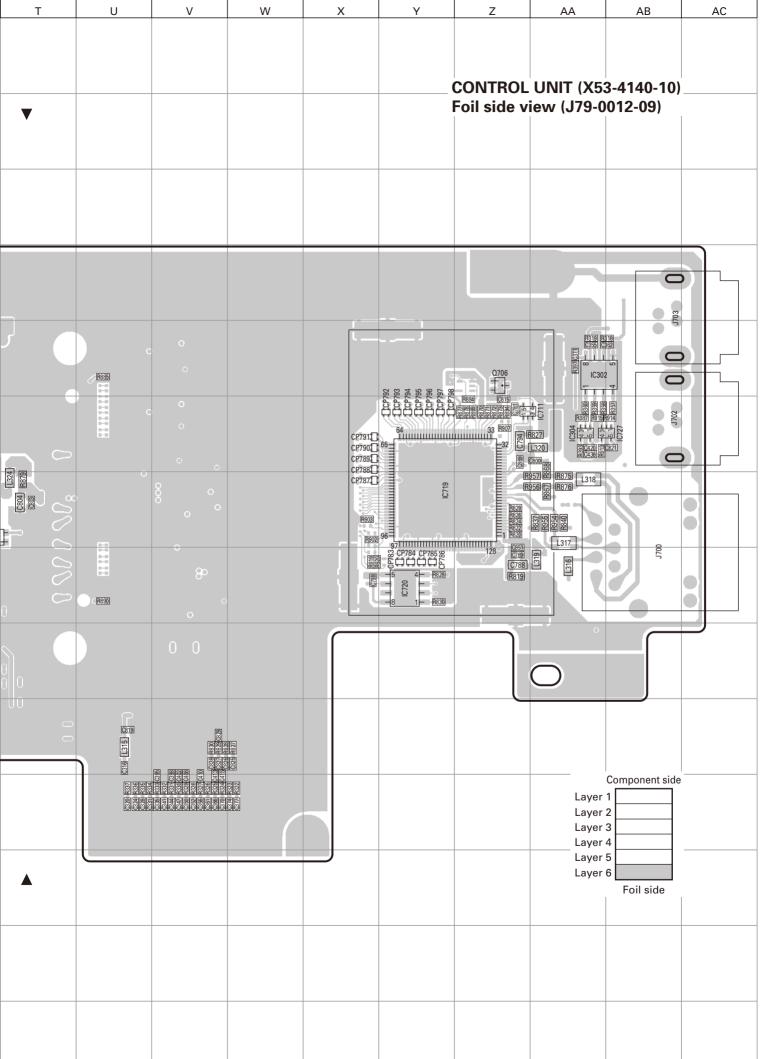




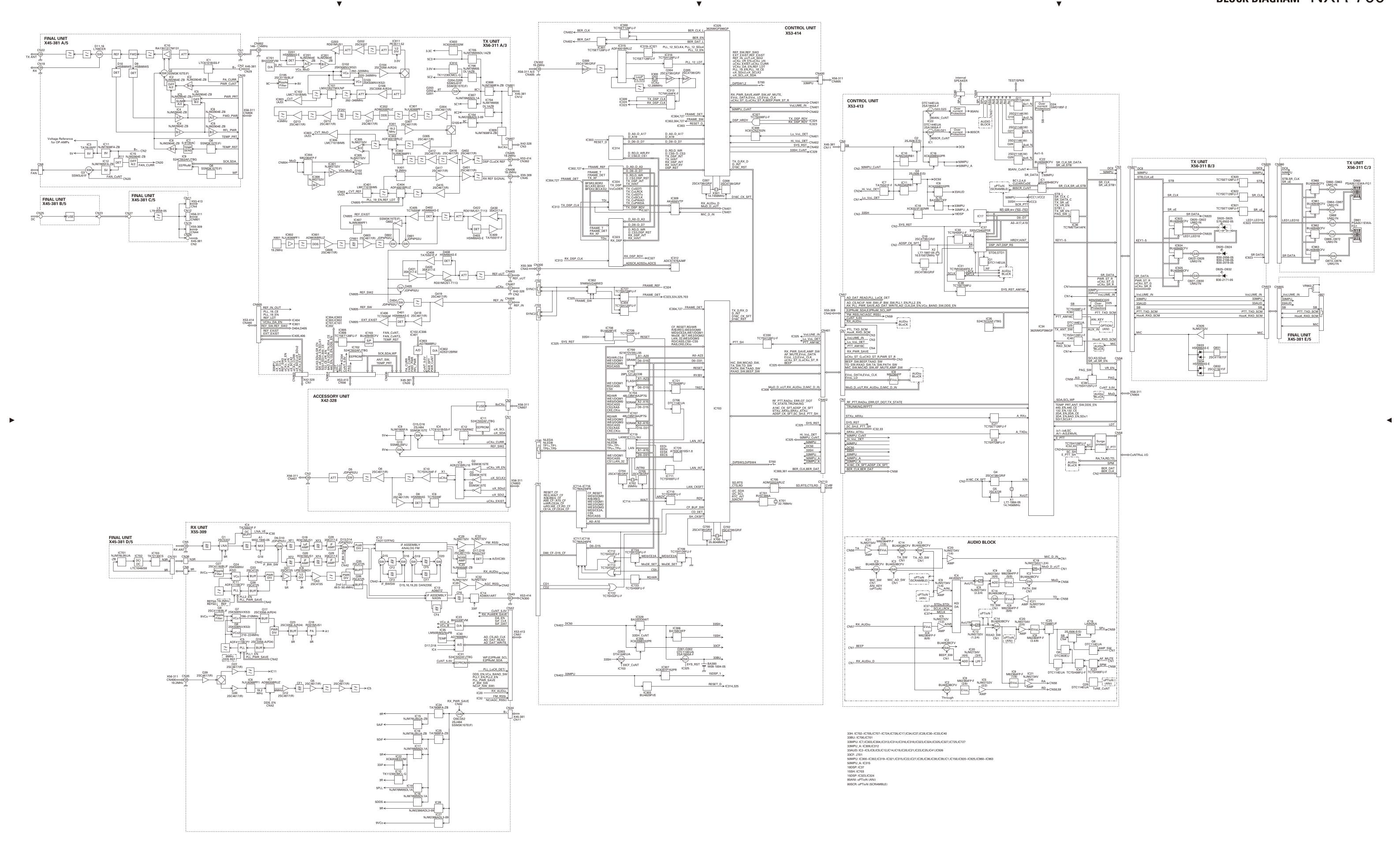


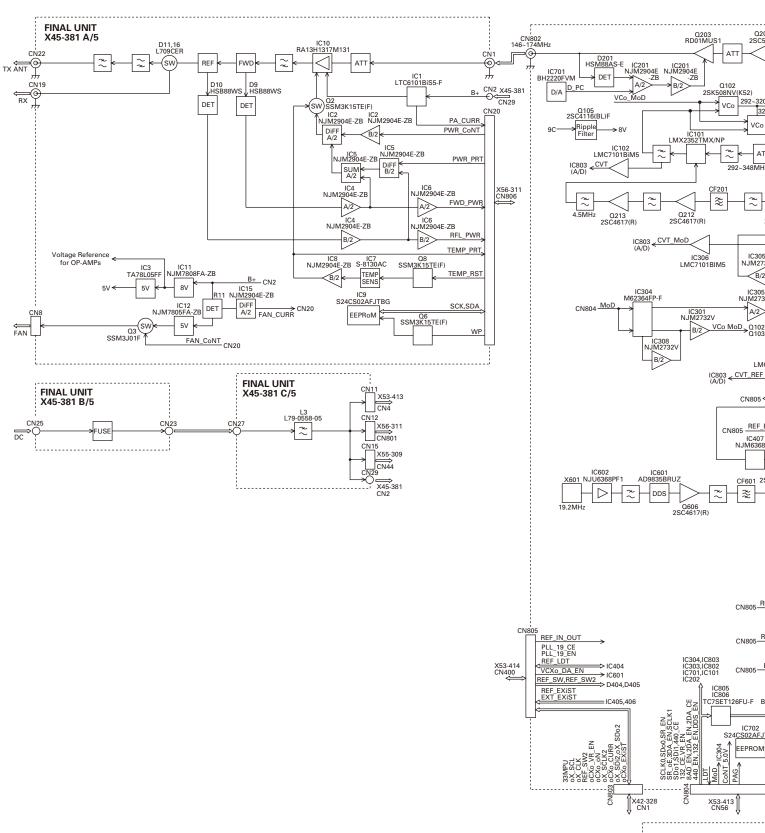






BLOCK DIAGRAM NXR-700





ACCESSORY UNIT X42-328

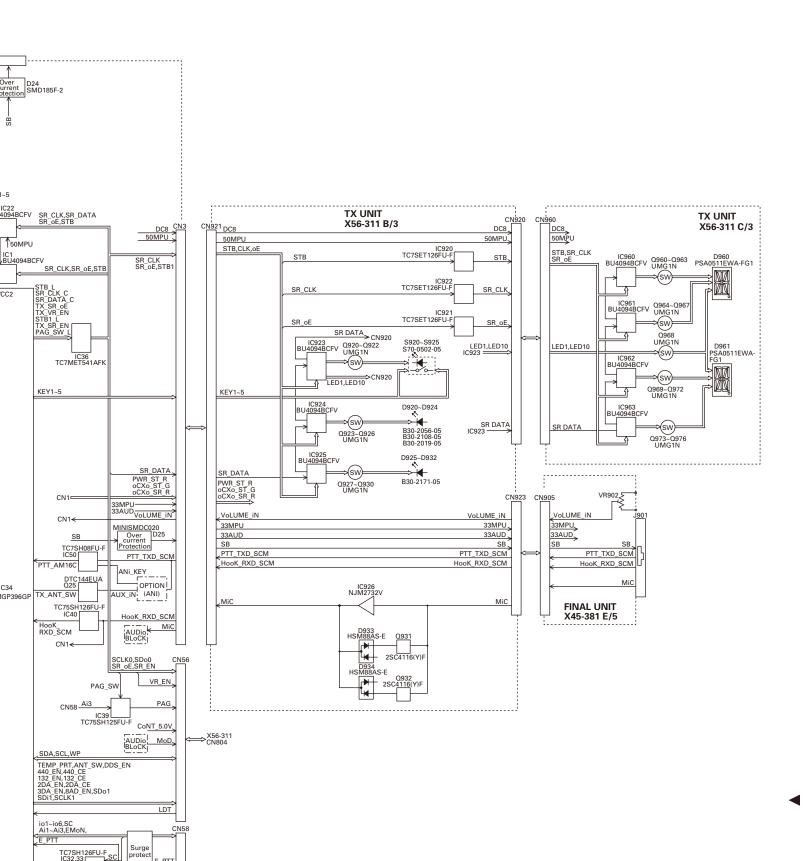
•

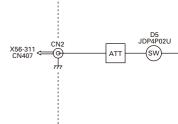
IC325 3625MGP396GP **CONTROL UNIT** BER_CLK_L X53-414 BER_EN BER_DAT_L , PLL_12_SDo4 PLL_12_EN REF_SW,REF_SW2 EXT_EXIST,REF_EXIST REF_IN_OUT,OX_SDI2 OCXO_VR_EN,OCXO_ON OCXO_EXIST,OCXO_CURR VCXO_DA_EN,REF_LDT PLL_19_EN,PLL_19_CE OX_SDG2,OX_SCLK2 OX_SCL,OX_SDA PLL_12_LDT、 Q305 2SC4738(GR) CN400 BUFF ⇒X56-311 CN805 internal SPEAKER TEST/SPKR 33MPU RX_PWR_SAVE,AMP_SW,AF_MUTE, EVoL_DATA,EVoL_LD,EVoL_CLK oCXo_ST_G,oCXo_ST_R,BEEP,PWR_ST_R SPo **CONTROL UNIT** Over current Protection MD185F-2 DTC144EUA 2SA1955A-F VoLUME_iN CN401 Ao1_N X53-413 SW) 022,023 ⇒CN402 → 80ANi 2SD2114K(W) FRAME_DET IC327 TC7SH08FU-F TX_DSP_RDY RX_DSP_RDY IC323 80ANi_CoNT IC22 DTC144EUA 2SA1955A-F SW 020,021 7 <FRAME_SW Q13 DSP HRDY AUDIO BLOCK RESET_D, 2SD2114K(W) IC308 XC61CN2702N Over current Protection Q27 Ao3_N Lo_VoL_DET CN401 80SCR_CoNT 02 2SJ506-E(S) Hi_VoL_DET_CN402 2SD2114K(W) IĊ1 X45-381 Q28 Ao4_N SYS_RST CN402 →DC8 33SH_CoNT IC329 IC10 NJ<u>M2340</u>RB1 IC16 XC6<u>209B5</u>02PR 2SD2114K(W) Ao1~5 IC22 BU4094BCFV SR_CLK,SR_DA' SR_oE,STB Q29 Ao5_N TX_D,RX_D D_iNT D16C_RST ►50MPU CN2_50MPU_CoNT →50MPU A 80ANi CoNT← Q3 2SJ506-E(S) SR_DATA 150MPU >DC50 Q307 2SC4738(GR)F BC1,2,4,8 CLEAR/CoDE IC1 <u>/BU4</u>094BCFV Q308 2<u>SC473</u>8(GR)F IC11 NJM2340RB1 IC6 oPTioN (SCRAMBLE) 80SCR_CoNT SR_CLK,SR_ol XC6209B332PR CN2<Hi_Vol_DET 4DH X301 14.7456MHz >33AUD STB_L SR_CLK_C SR_DATA_C TX_SR_oE TX_VR_EN STB1_L TX_SR_EN PAG_SW_L D16C CK SFT CN1<Lo_VoL_DET VCC1.VCC2 IC15 BA33BCOFP 50MPU-33SH ——>
SCR_PTT RX_AUDio_D MoD_D_oUT CN401 усс3 IC18 XC62<u>01P18</u>2MR →33MPU_A RD,WR,RY,CS0~CS2 CN2_33SH →18DSP MiC D iN IC17 D0~D7 A0~A17,A19 CN2_SYS_RST IC36 TC7MET54 IC30 320 TC75H00FU-F BCLK, 1C37 320VC5402PGE Q10 2SC4738(GR)F HRDY,HINT KEY1~5 CN2 ADSP_CK_SFT DSP_iNT,DSP_RS L77-1987-05 STD0,STD1 Q1 DTC114EUA IC31 TC7MH4040FK-/XF Q12 2SC4738(GR)F AUDio BLoCK SCLK TC<u>7SET0</u>8FU SYS_RST_AM16C 703 AD_DAT_READ,PLL_LoCK_DET AD CS.NCIIF NW SW.JIF BW SW.PLL1 EN.PLL2 EN
RX_PLL_PWR_SAVE,AD_DAT_WRITE,AD_CLK,DA_EN,VCo_BAND_SW,DDS_EN
E2PROM_SDA_E2PROM_SCL,WP
FM_RSSI,NC(AGC_RSSI) CN59
CN59 SB FRAME_DET TC7SH08 TX_D,RX_D D_iNT D16C_CK_SFT D16C_RST X55-309 CN42<─ PTT_AM16C CoNT_5.0V RX_AUDio S24CSO2AFJTBG AUDio DTC144 Q25 ET,RD/WR D,WE0/DQM0 2A,WE1/DQM1 ET,WE2/DQM2 WE3/DQM3 S,CS0~CS5 E,CKio TX_ANT_SW CN1 PTL_TXD_SCM HooK_RXD_SCM CN401 3625MGP396GP IC325 € VoLUNE_iN TC75SH126 IC330 CN3 TC7<u>SH126</u>FU-F VoLUME IN Lo_Vol_DET PTT_AM16C IC40 — CN3 PTT_SH Lo_VoL_DET HooK_ RXD_SCM PTT_AM16C CN4 RX_PWR_SAVE,AMP_SW AF_MUTE,EVoL_DATA EVoL_LD,EVoL_CLK oCXo_ST_G,oCXo_ST_R BEEP RX_PWR_SAVE oCXo_ST_G,oCXO_ST_R,PWR_ST_R

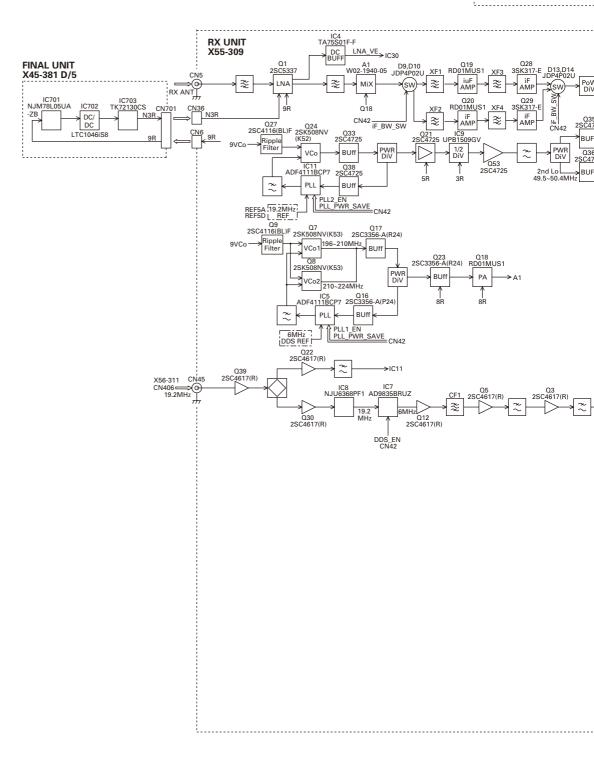
CN3 Δ0~Δ23 BEEP_SW,BEEP,TAAD_SW
TD_SW,RXAD_SW,TA_SW,PATH_SW
MIC_SW,MICAD_SW,AF_MUTE,AMP_SW HIC_SW,MICAD_SW, TA_SW,TD_SW PATH_SW,TAAD_SW RXAD_SW,BEEP_SW RESET. AUDio BLoCK M<u>62364</u>FP RY/BY EVoL_DATA,EVoL_CLK EVoL_LD CN58 Ai IC309 C___OUT,RX_AUDio_D,MiC_D_iN MoD_D_oUT,RX_AUDio_D,MiC_D_iN TRST. RF_PTT,RADio_ERR,QT_DQT TX_STATE,TRUNKING RF_PTT,RADio_ERR,QT_DQT,TX_STATE
TRUNKING,RFPTT TEMP_PRT,ANT 440_EN,440_CE 132_EN,132_CE 2DA_EN,2DA_CE 3DA_EN,8AD_EN SDi1,SCLK1 A16C_CK_SFT,ADSP_CK_SFT STXo_ARXo,SRXo_ATXo ADSP_CK_SFT,SC_SH,E_PTT_SH IC703 A_RXo STXo_ARXo IC325 SYS_RST SYS_RST SYS_RST SC_SH,E_PTT_SH IC32,33 IC27 TC7SET126FU-F io1~io6,SC Ai1~Ai3,EMoN, SRXo ATXo A_TXDo 50MPU_CoNT Hi_VoL_DET IC325 <= IC28 TC7SH126FU-F LAN_iNT、 <50MPU TC7SH12 DC50

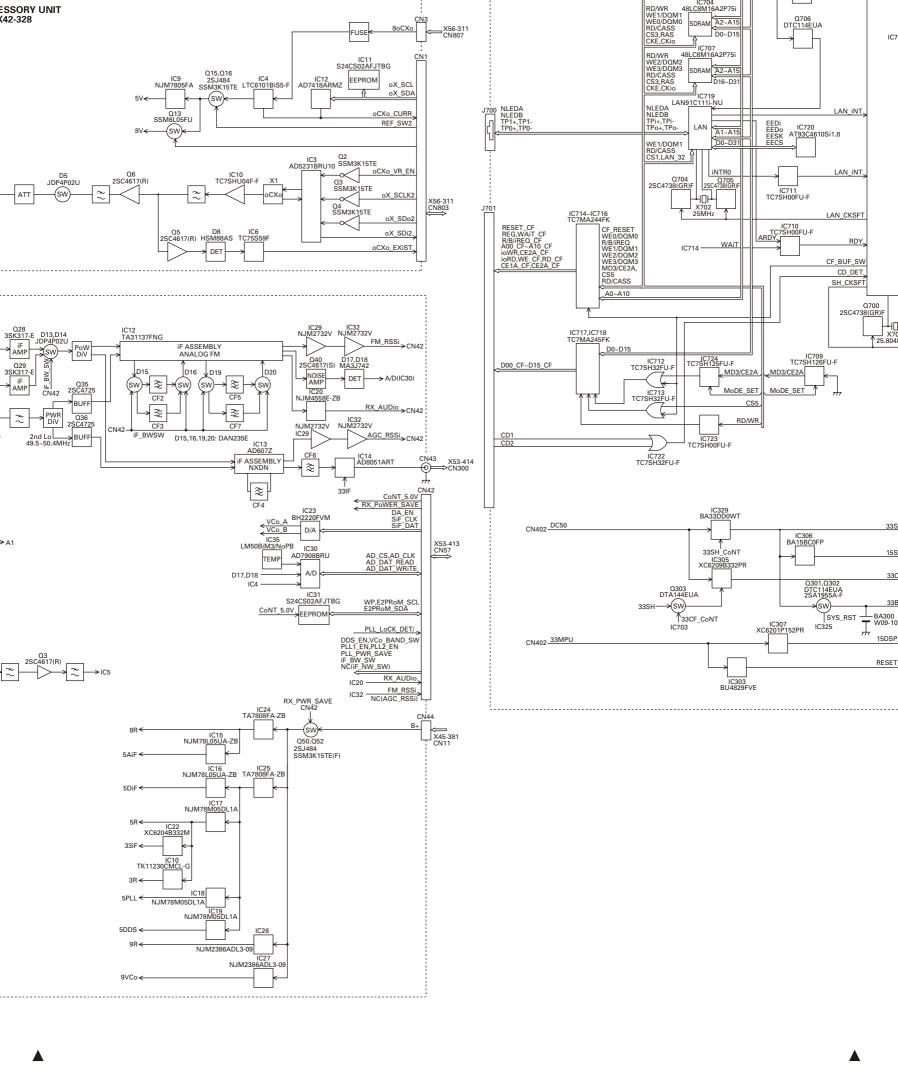
_

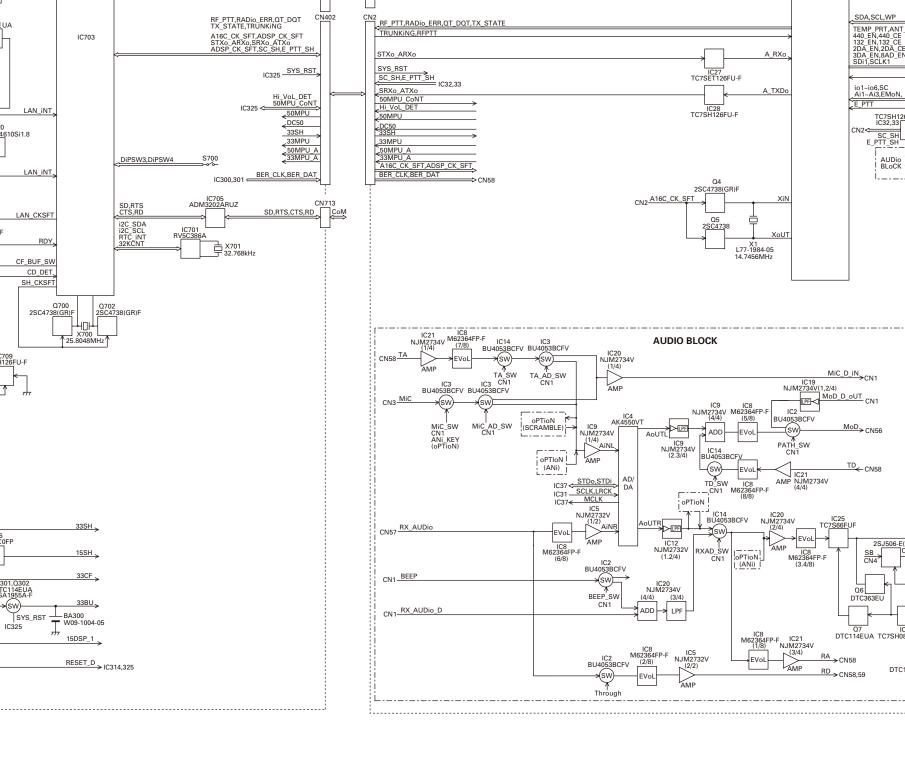
BLOCK DIAGRAM NXR-700



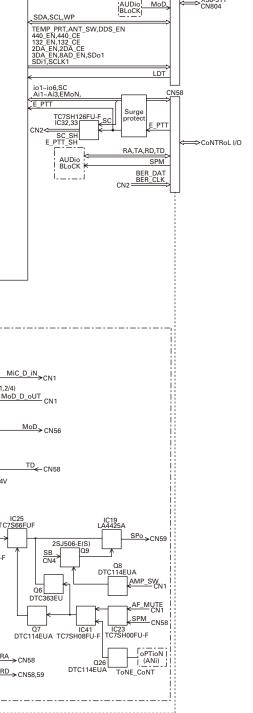


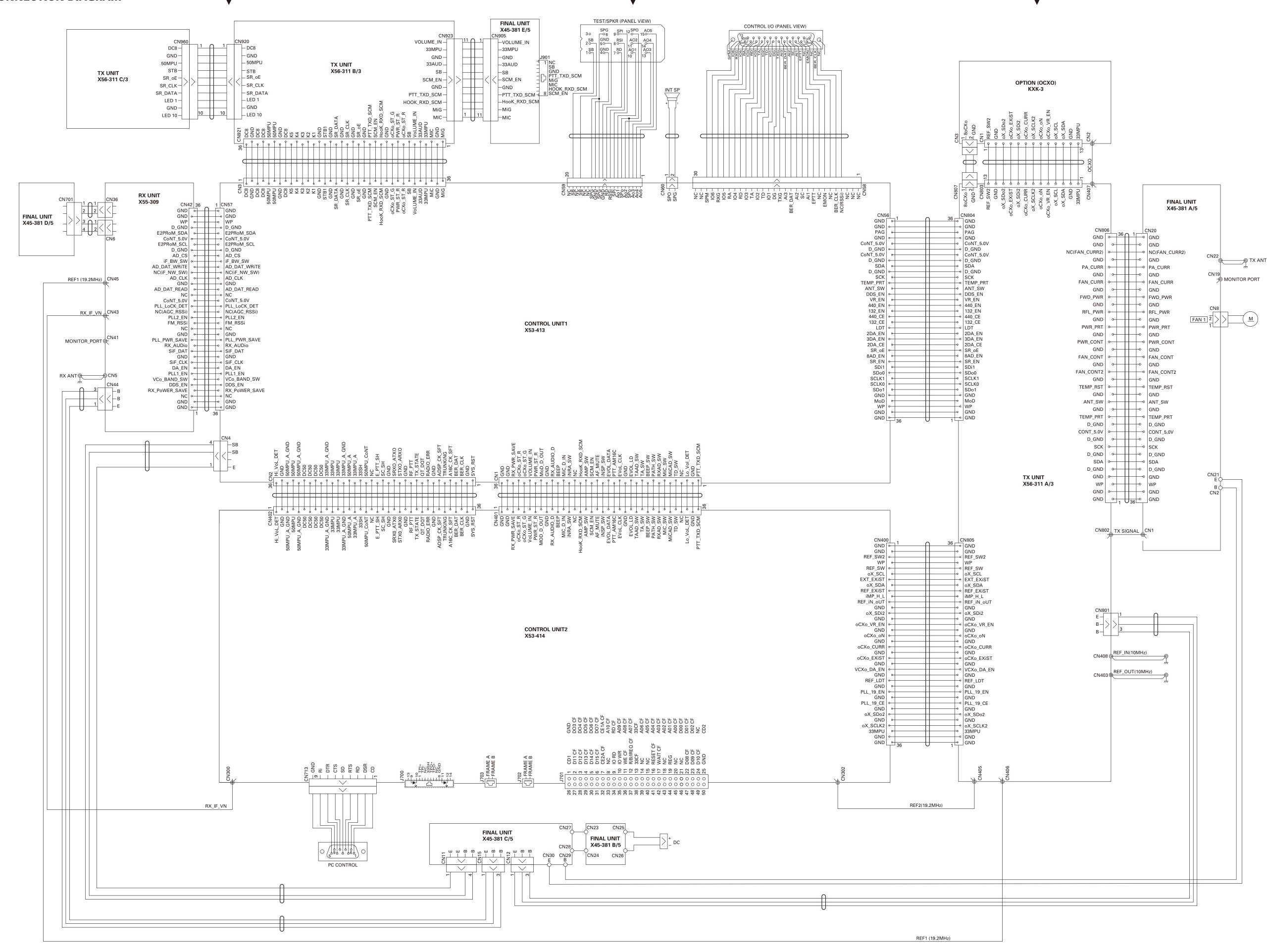




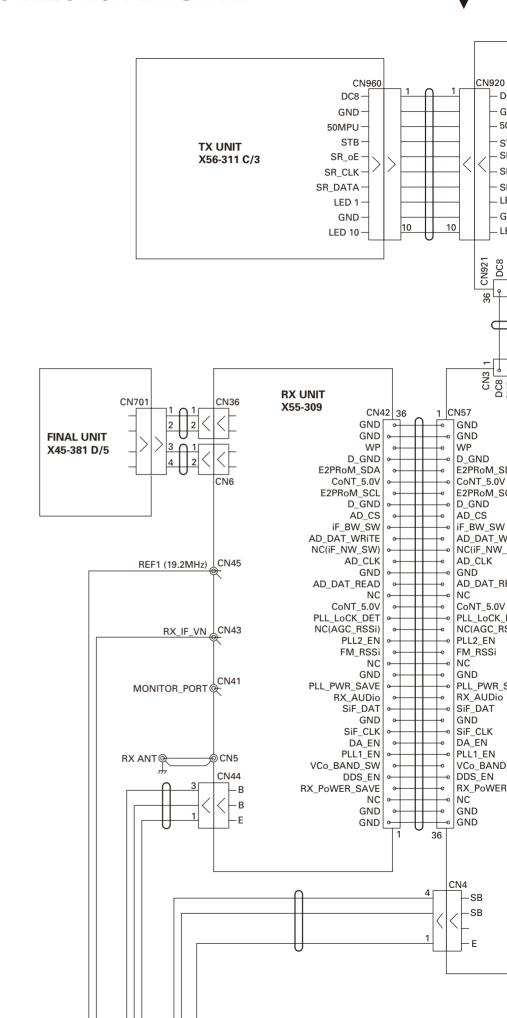


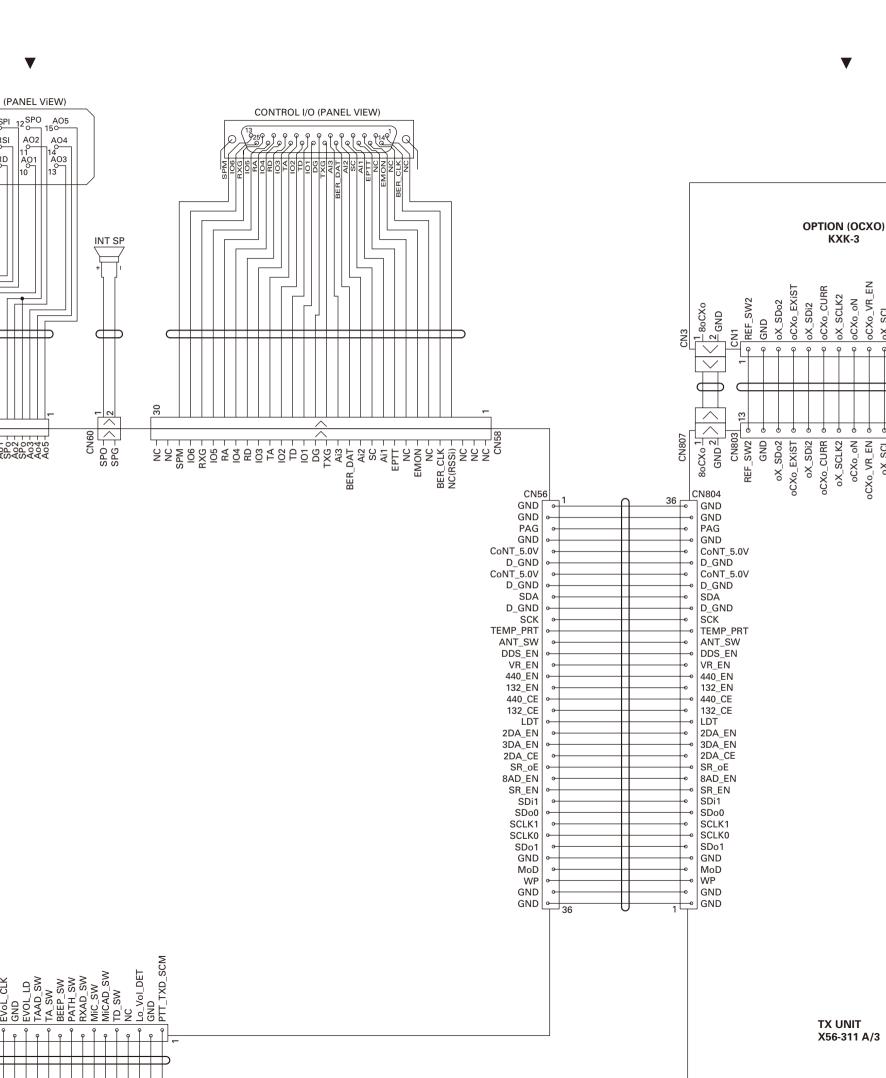
33H: IC702_IC705,IC707_IC724,IC726,IC17,IC34,IC37,IC28,IC30_IC33,IC40
33BU: IC700,IC701
33BU: IC700,IC701
33BU: IC700,IC701
33MPU: A: IC303,IC304,IC313,IC314,IC316,IC318,IC323,IC324,IC325,IC327,IC725,IC727
33MPU_A: IC309,IC312
33AUD: IC2_IC5,IC8,IC9,IC12,IC14,IC19,IC20,IC21,IC23,IC25,IC41,IC926
33CF: J701
50MPU: IC300_IC302,IC319_IC321,IC315,IC22,IC27,IC35,IC36,IC38,IC39,IC1,IC150,IC920_IC925,IC960_IC963
50MPU_A: IC315
18DSP: IC37
18SH: IC703
15DSP: IC323,IC324
80ANI: oPTION (ANI)
80SCR: oPTION (SCRAMBLE)

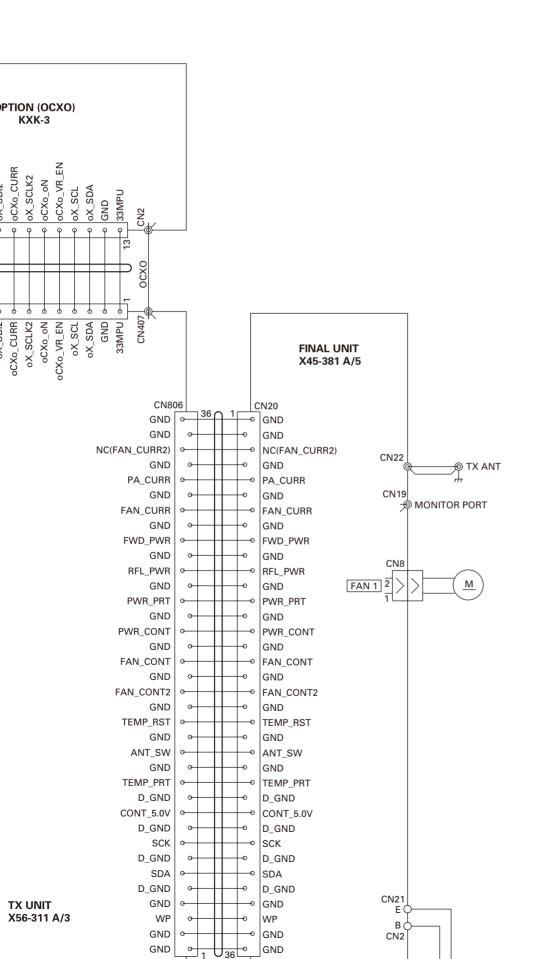


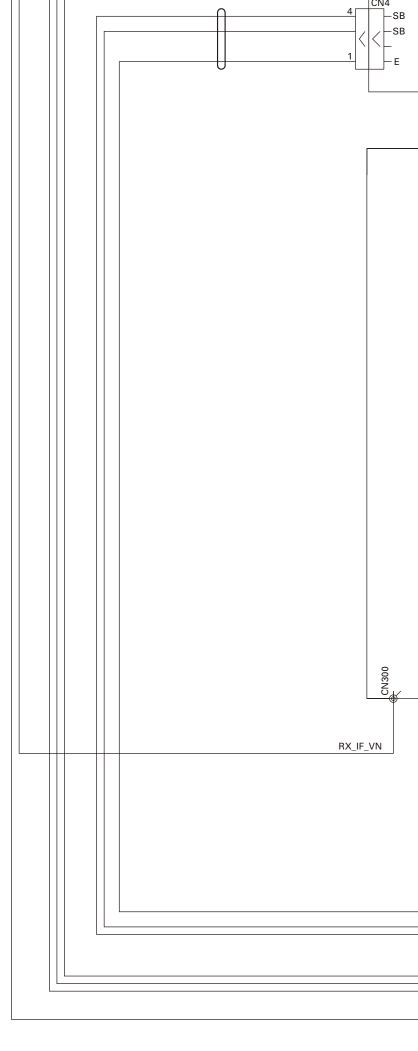


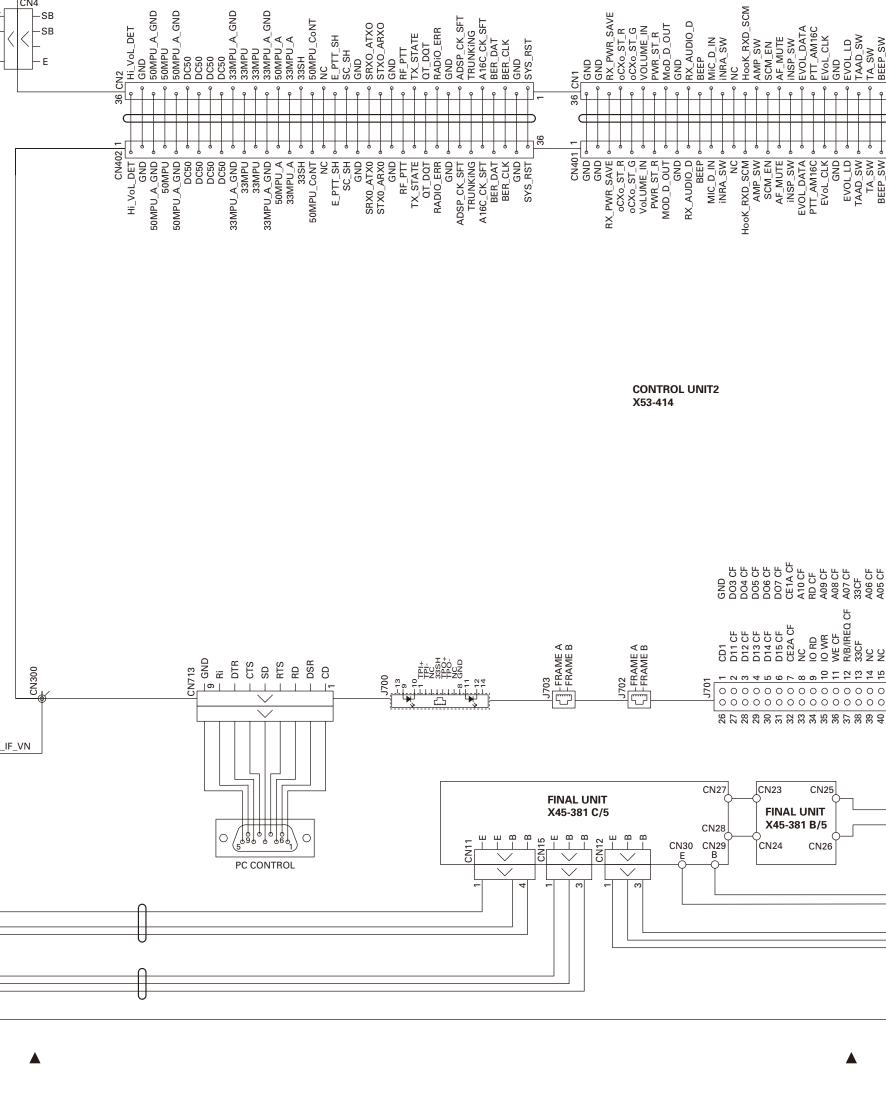
NXR-700 INTERCONNECTION DIAGRAM

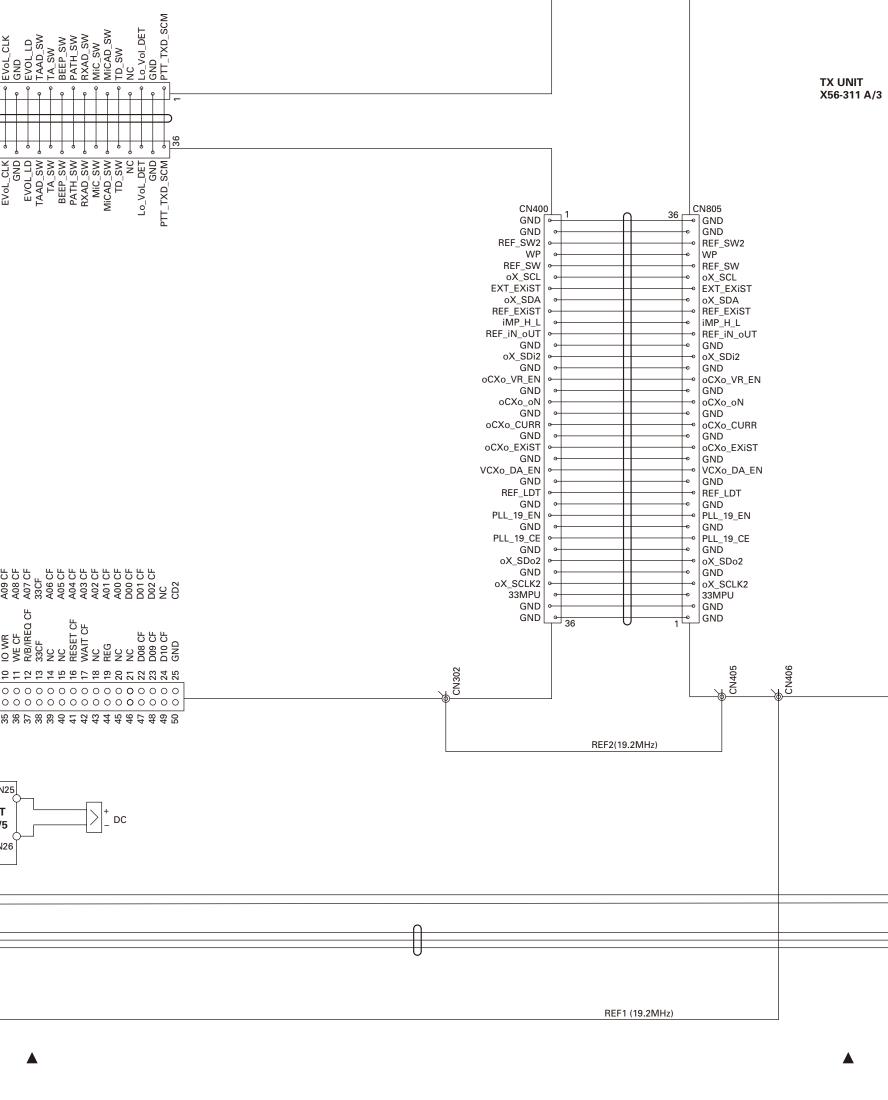


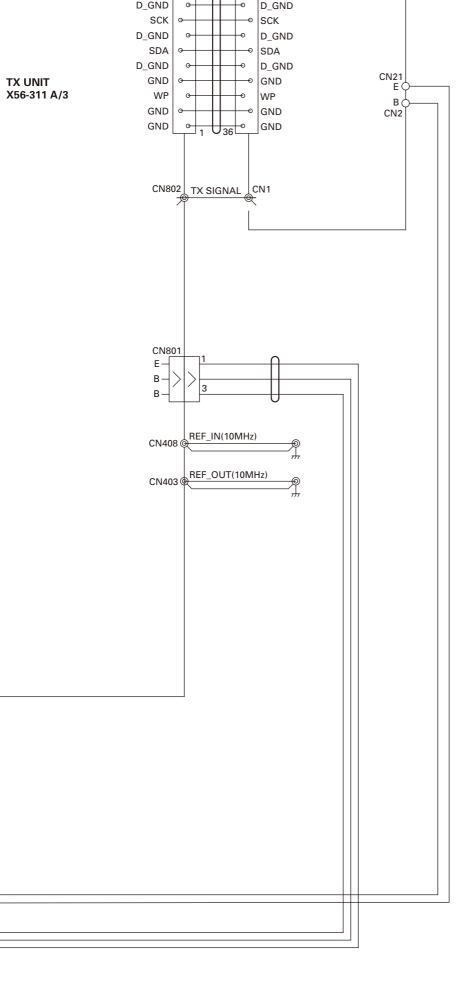




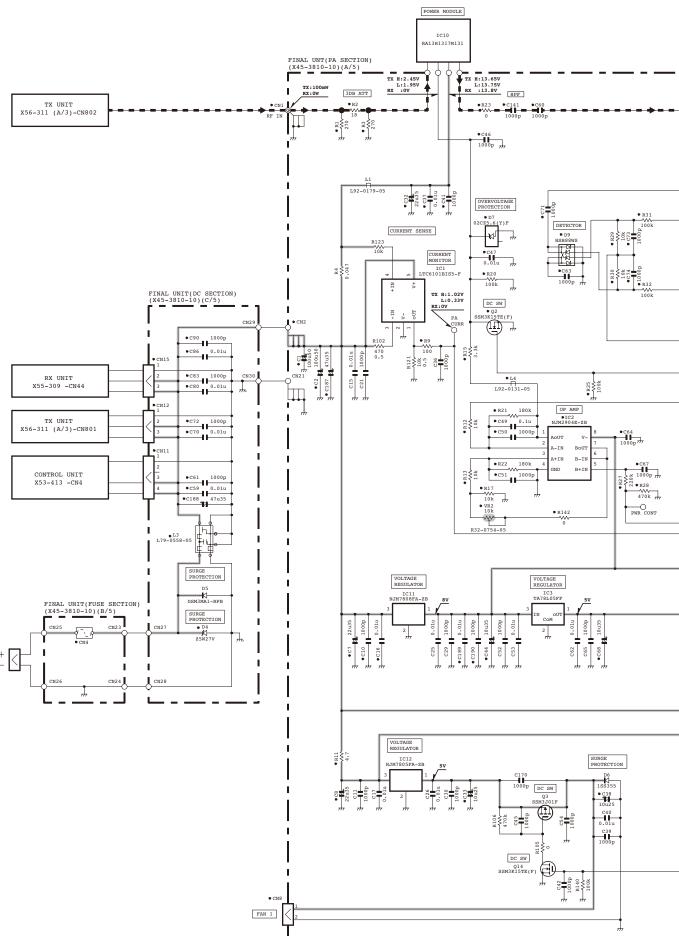






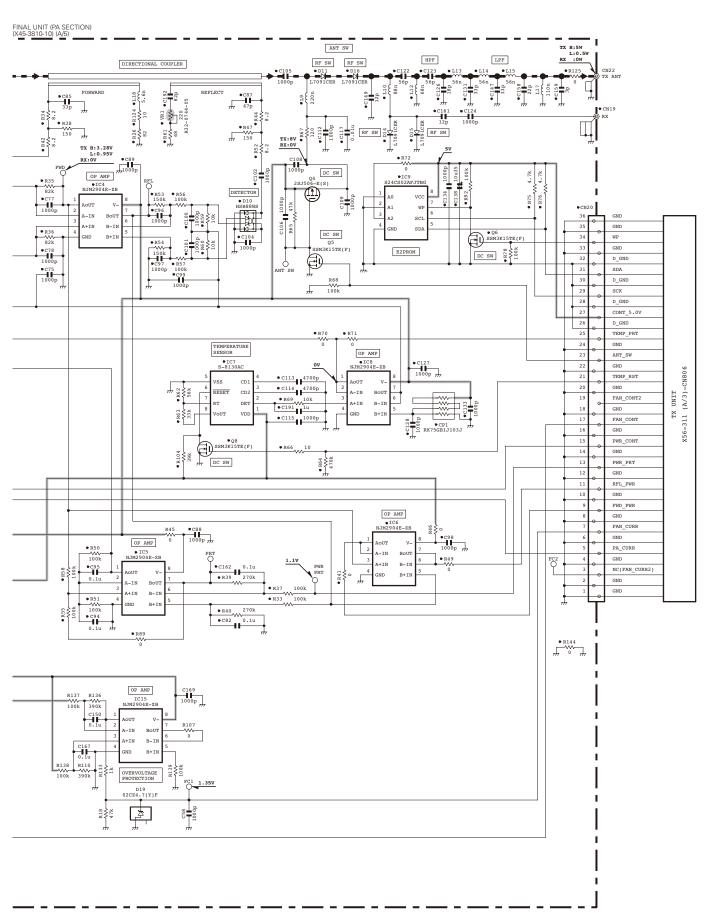


D



6

SCHEMATIC DIAGRAM NXR-700



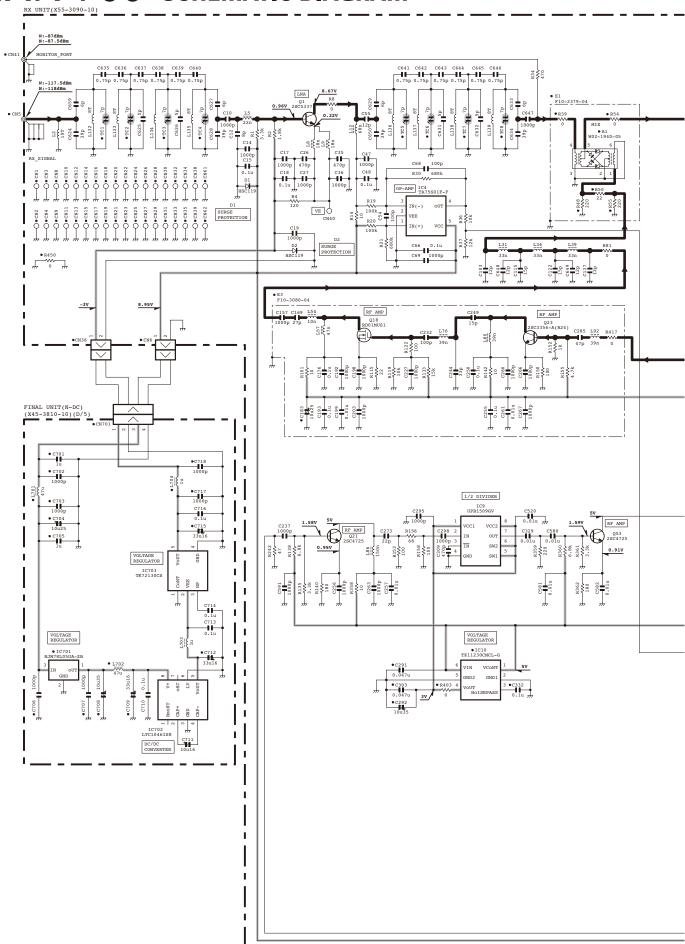
F

G

2

4

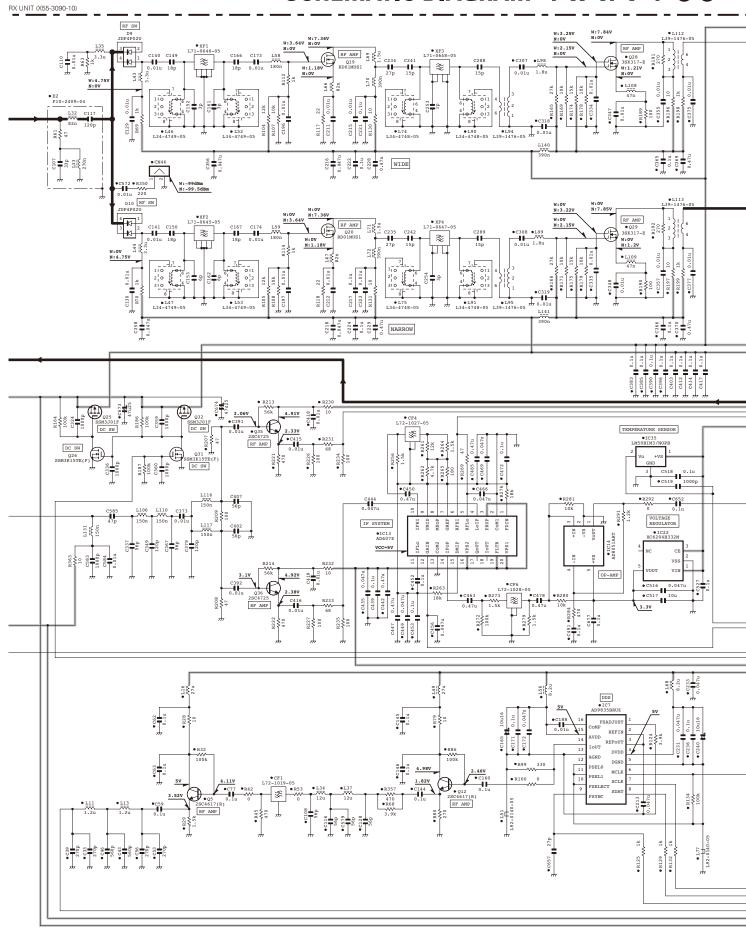
NXR-700 schematic diagram



D

6

SCHEMATIC DIAGRAM NXR-700

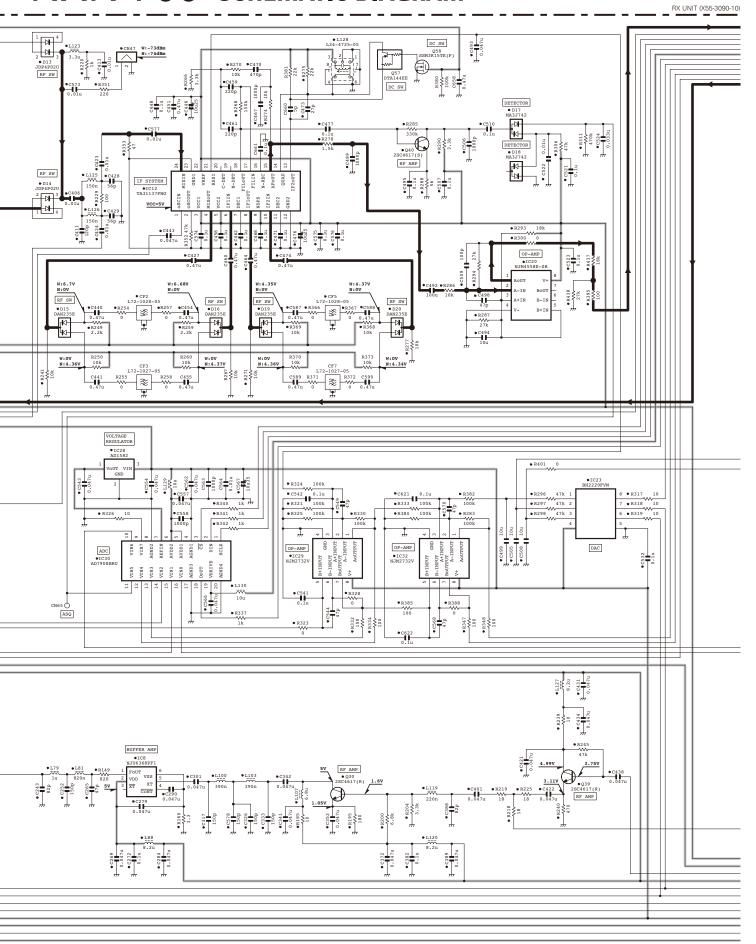


Н

F

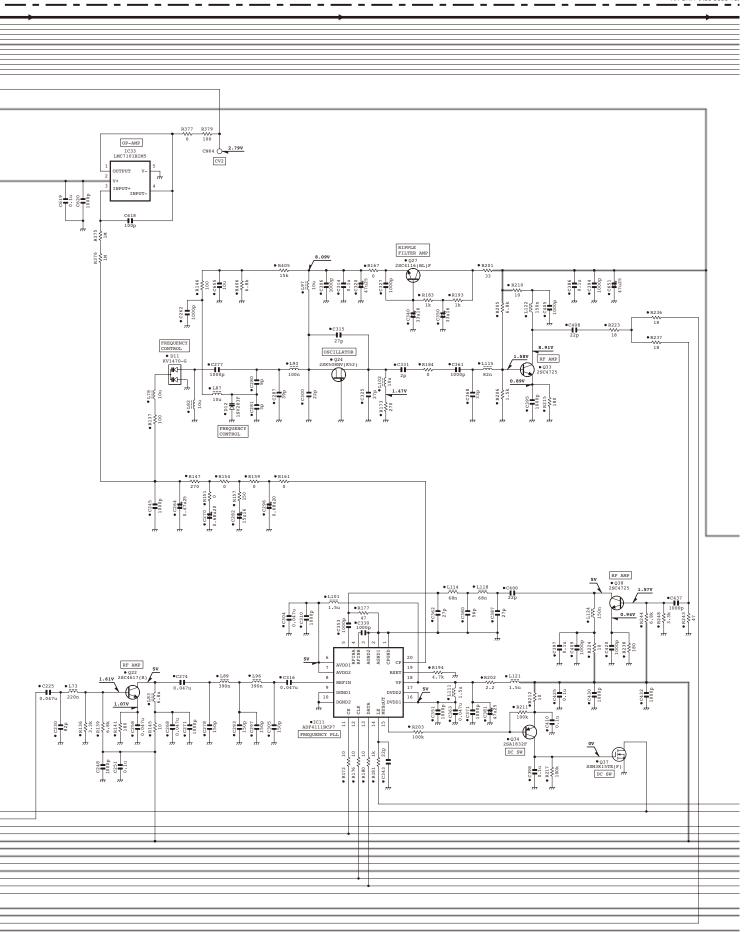
G

NXR-700 schematic diagram



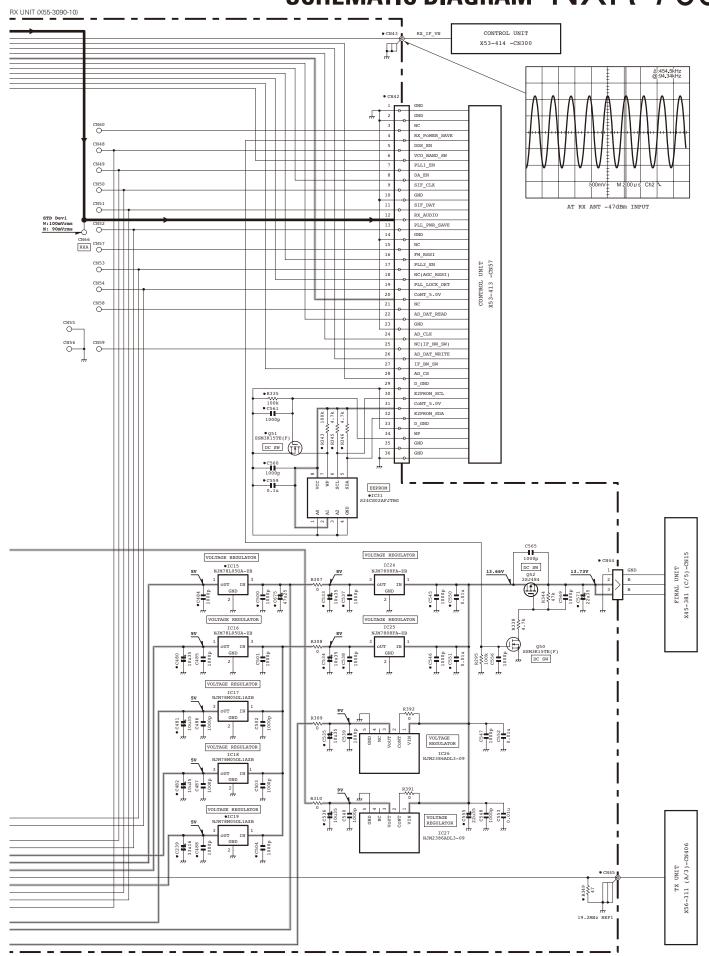
Ρ **NXR-700 SCHEMATIC DIAGRAM** RX UNIT (X55-3090-10) RIPPLE FILTER AMP OP-AMP *C113 7p(B) *C665 8p(B) 1000p OSCILLATOR • Q7 2SK508NV(K53) VCO_A • C114 6p(B) • C662 7p(B) OSCILLATOR • Q8 2SK508NV(K53) Q60 SSM3K15TE(F) •C37 RF AMP •Q16 2SC3356-A(R24) OQ2 2SC4116(BL)F PLL ACTIVE FILTER AMP 0.1u ◆IC5 ADF4111BCP7 FREQUENCY PLL

Υ



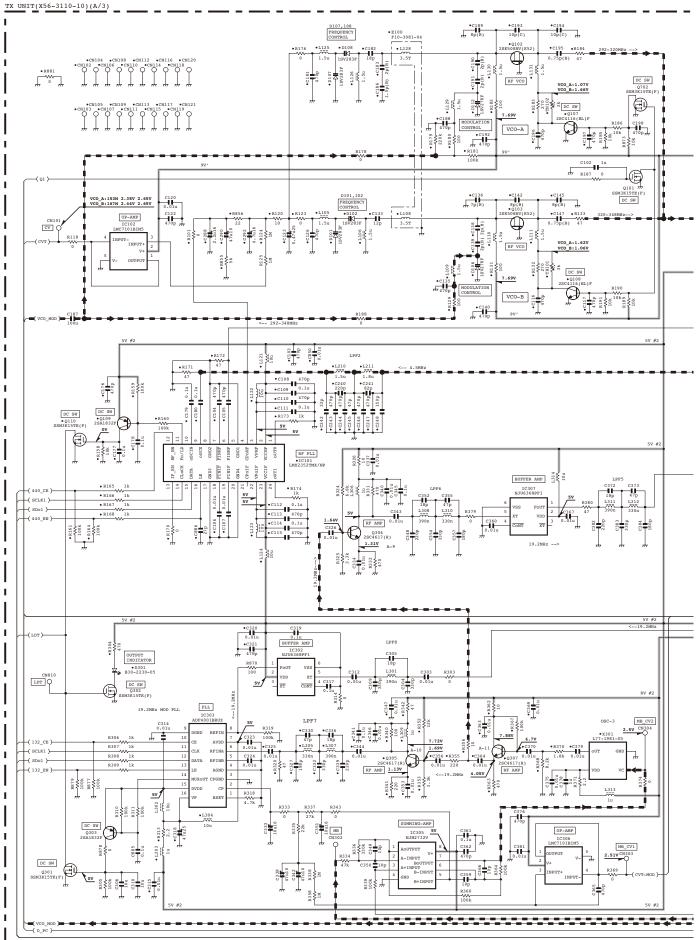
W





Note: The components marked with a dot (•) are parts of layer 1.

NXR-700 schematic diagram

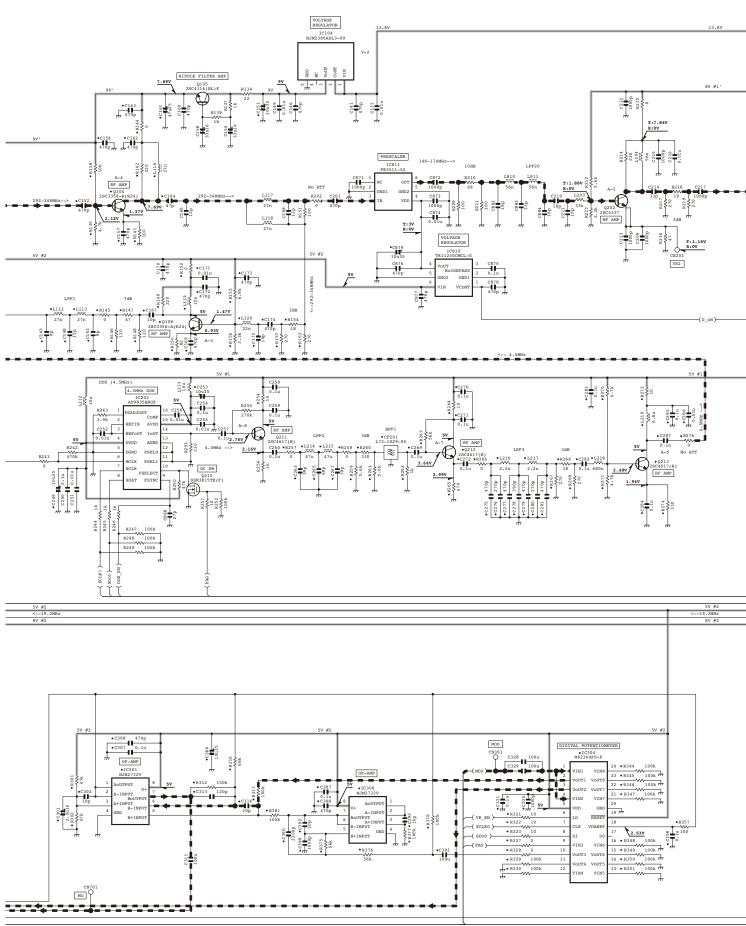


D

6

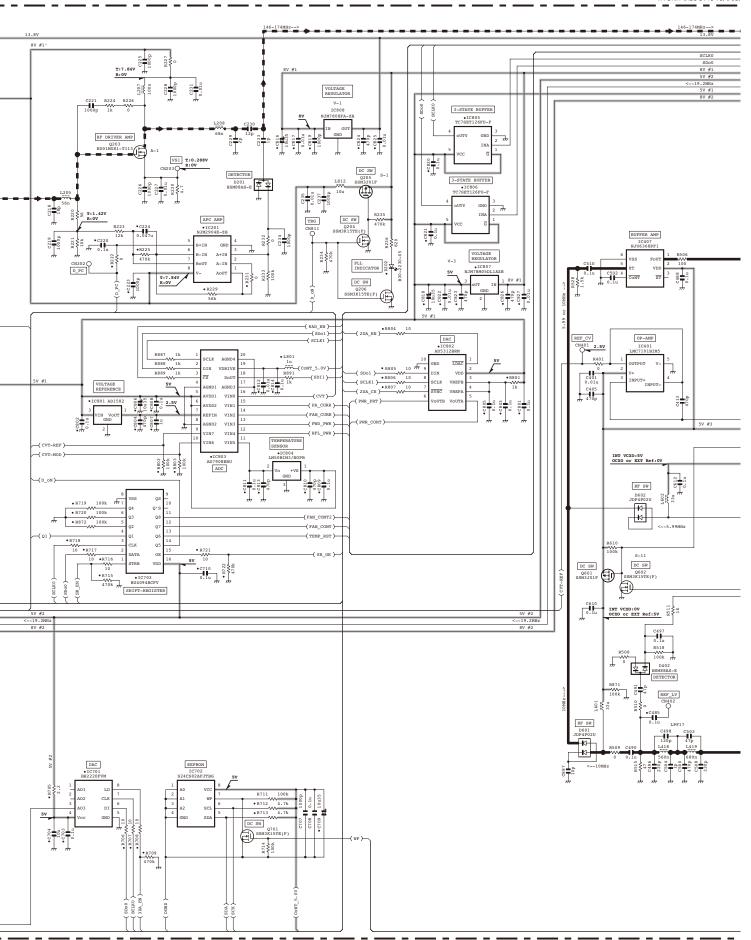
SCHEMATIC DIAGRAM NXR-700





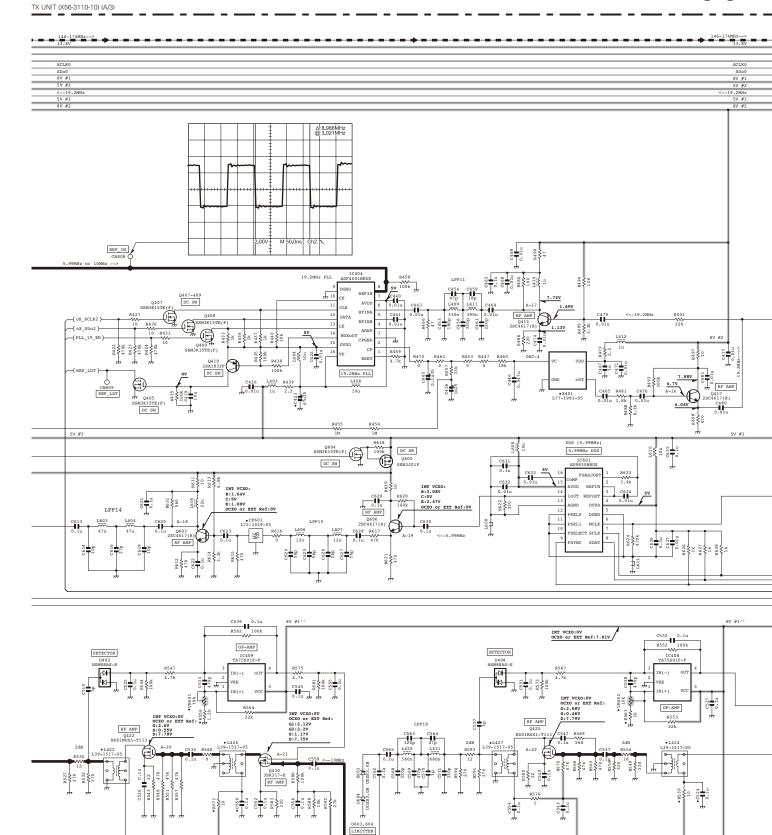
NXR-700 SCHEMATIC DIAGRAM

TX UNIT (X56-3110-10) (A/3)



Q

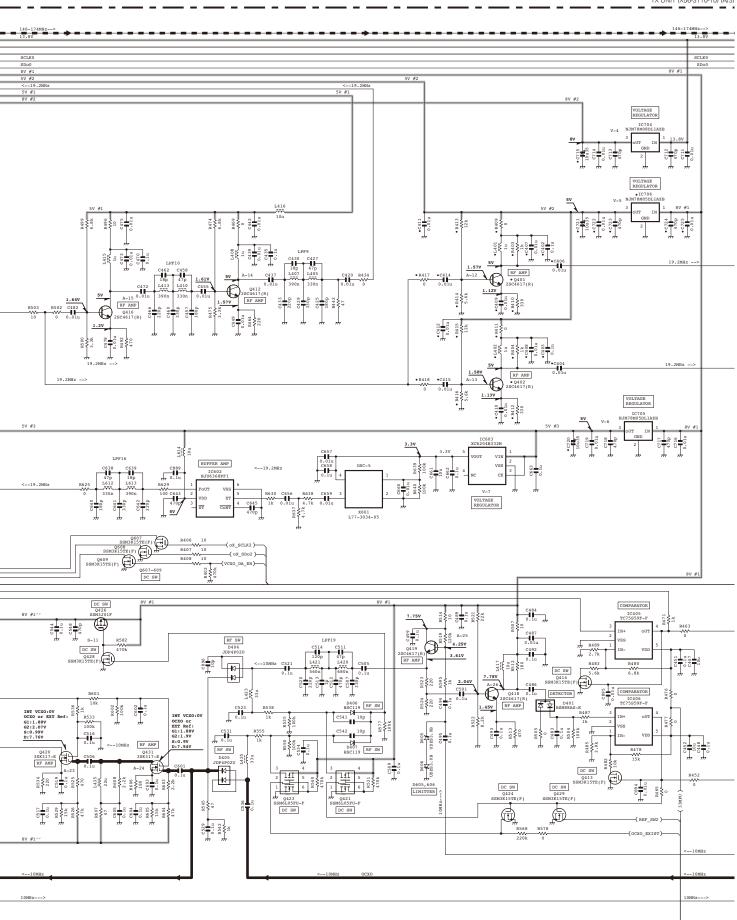
SCHEMATIC DIAGRAM NXR-700



R

U

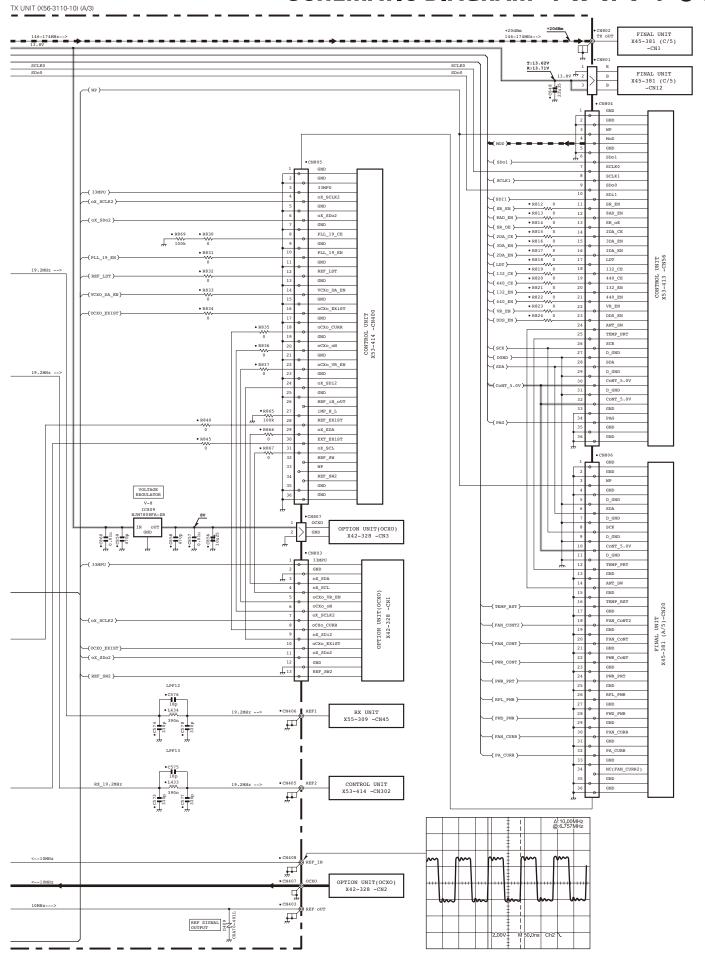
Υ



W

Z AA AB AC AD

SCHEMATIC DIAGRAM NXR-700



Note: The components marked with a dot (•) are parts of layer 1.

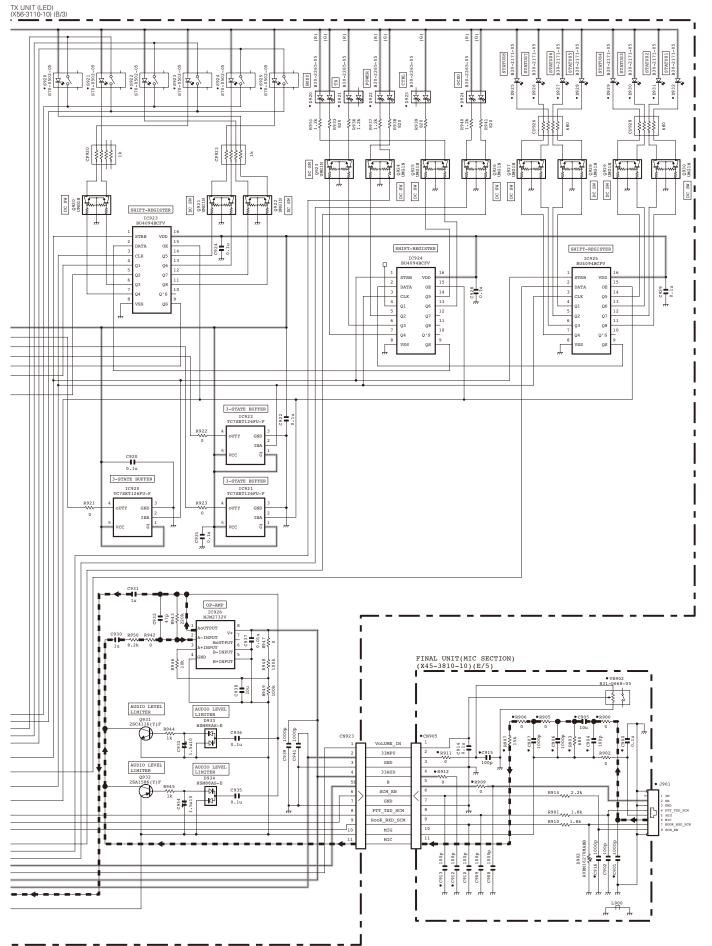
2

4

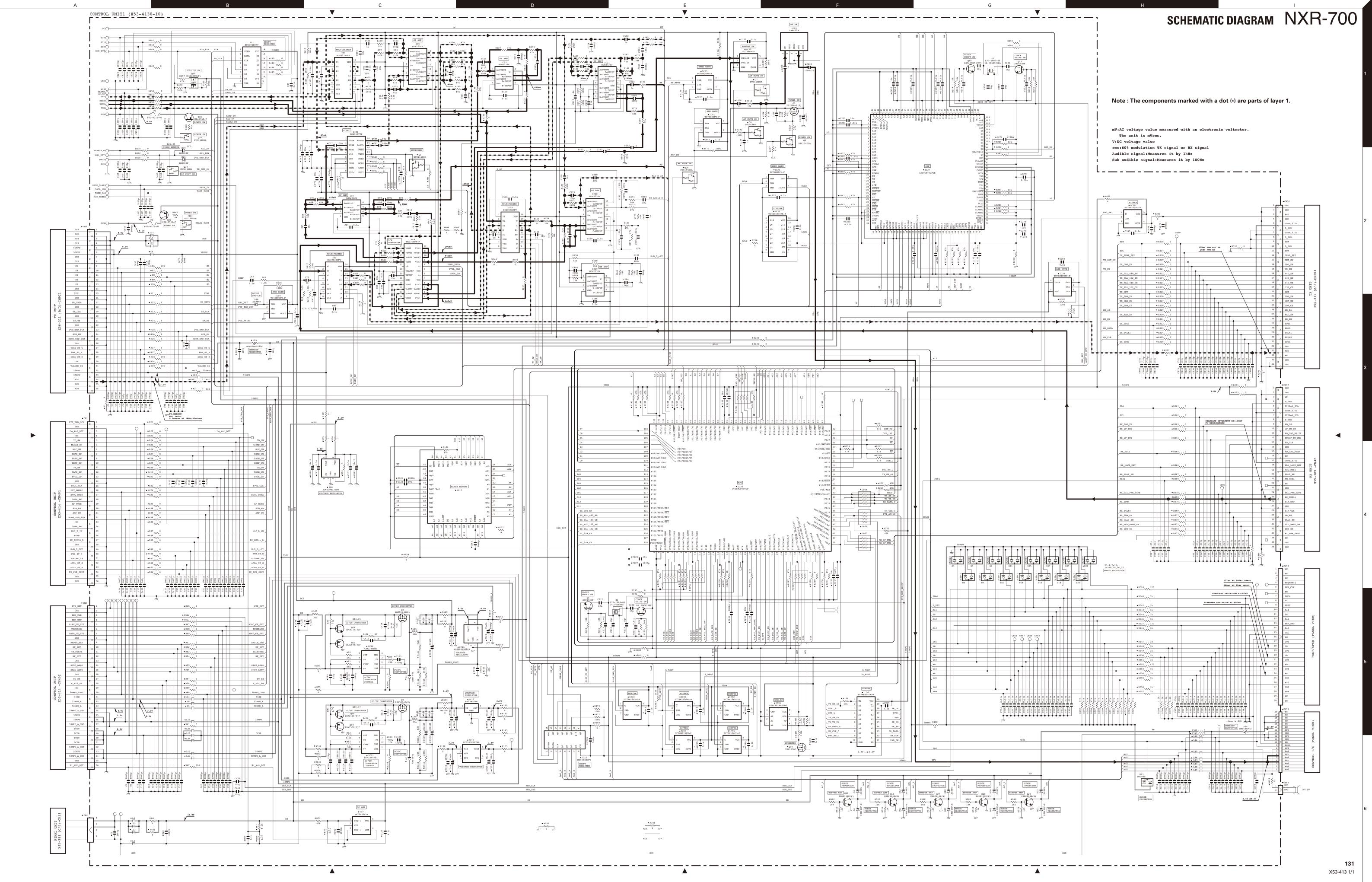
D

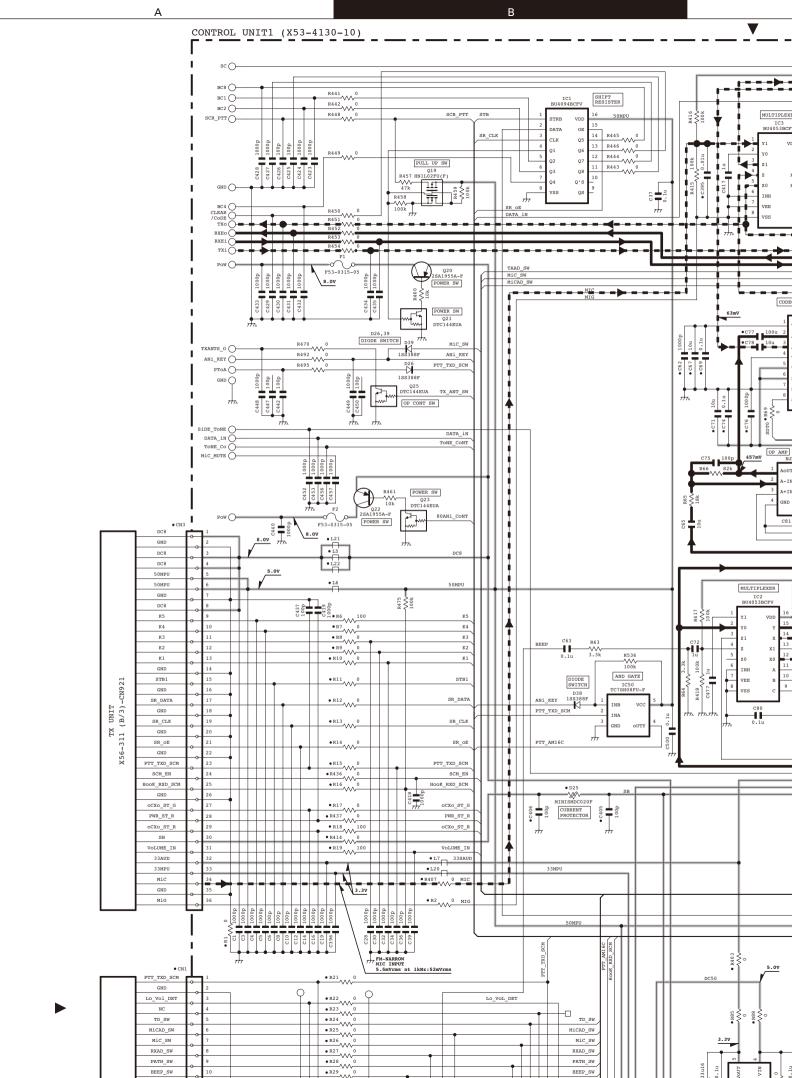
6

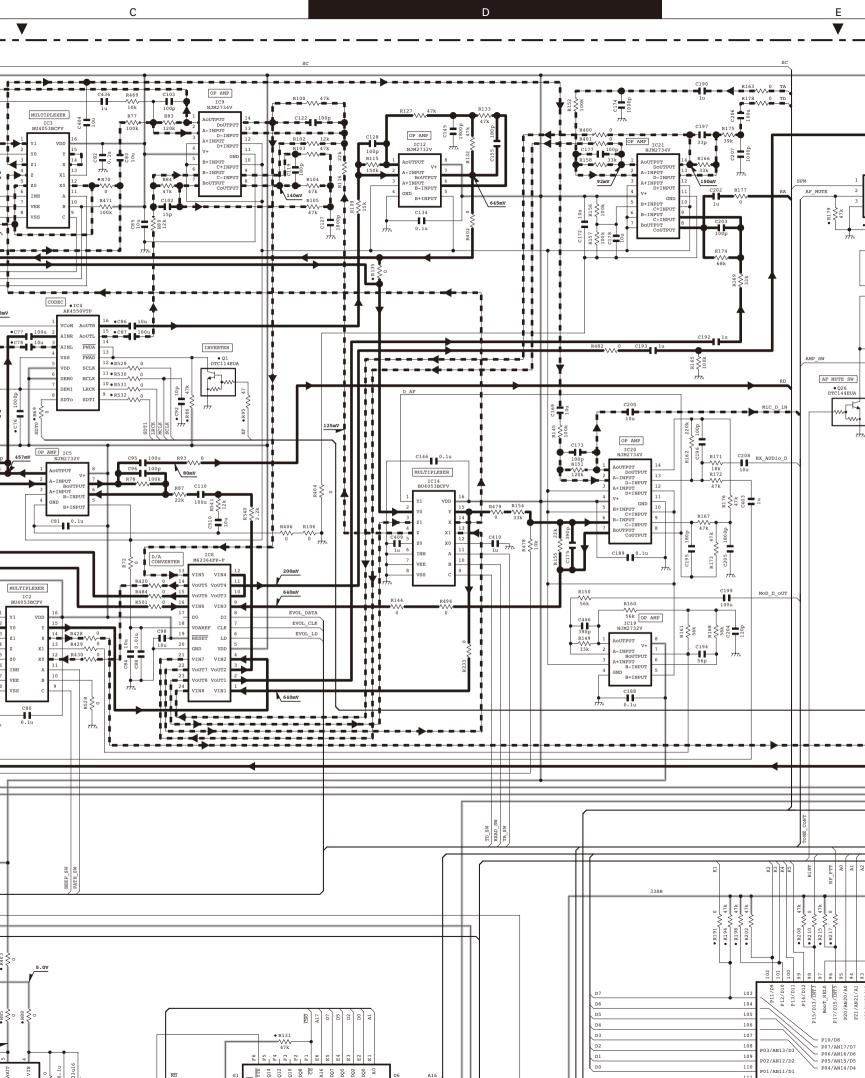
SCHEMATIC DIAGRAM NXR-700

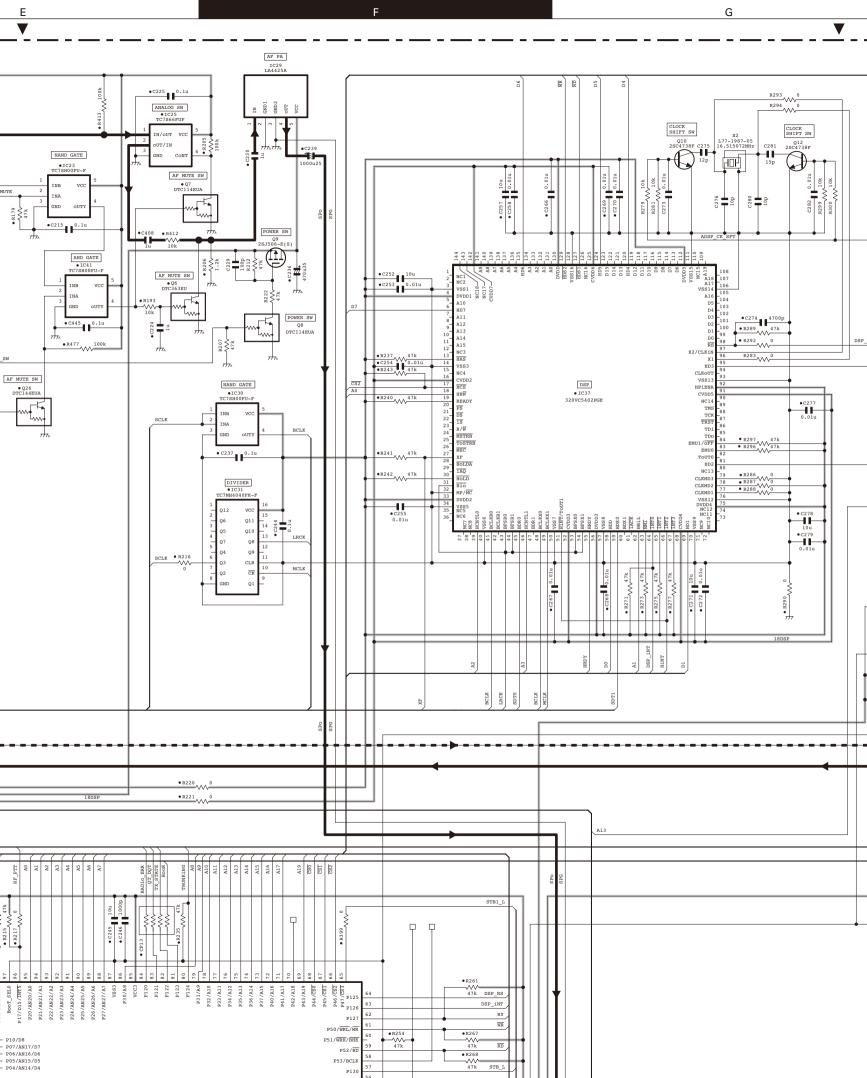


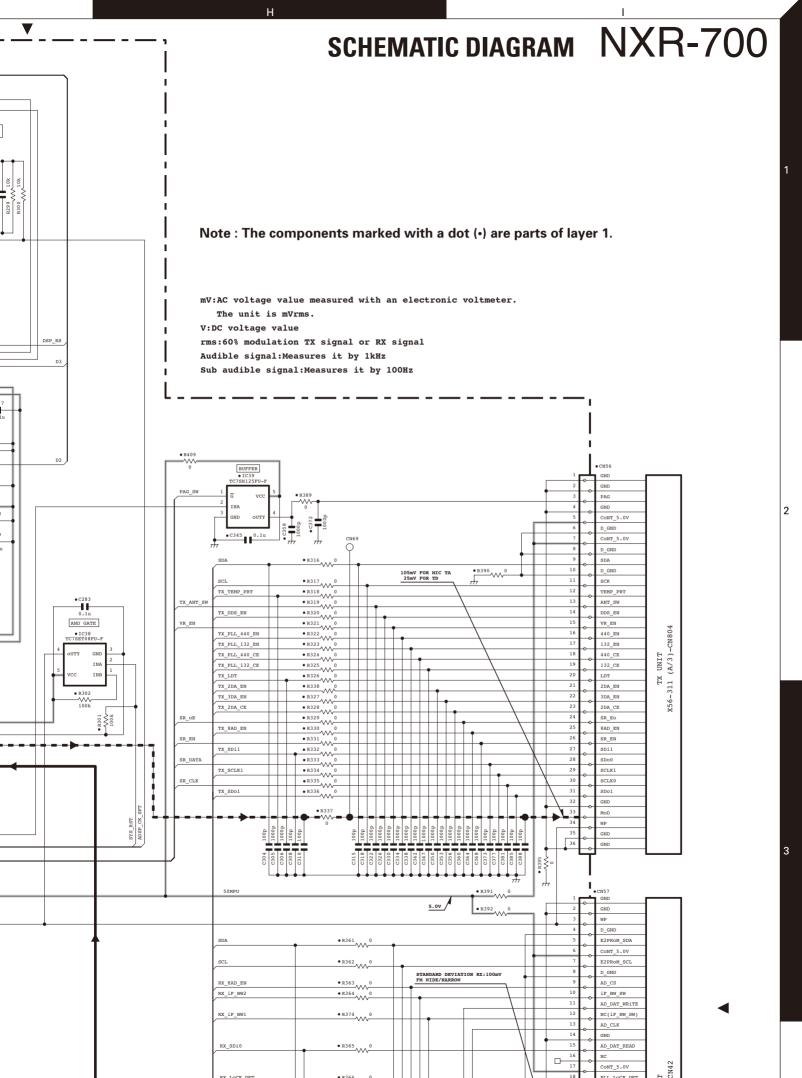
G

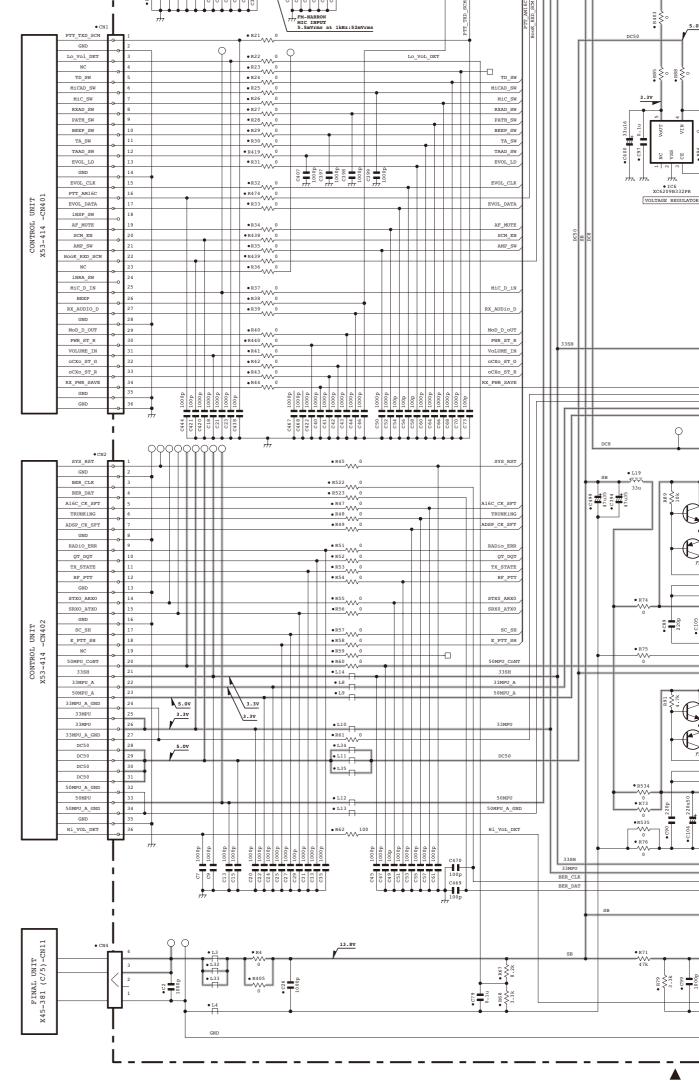


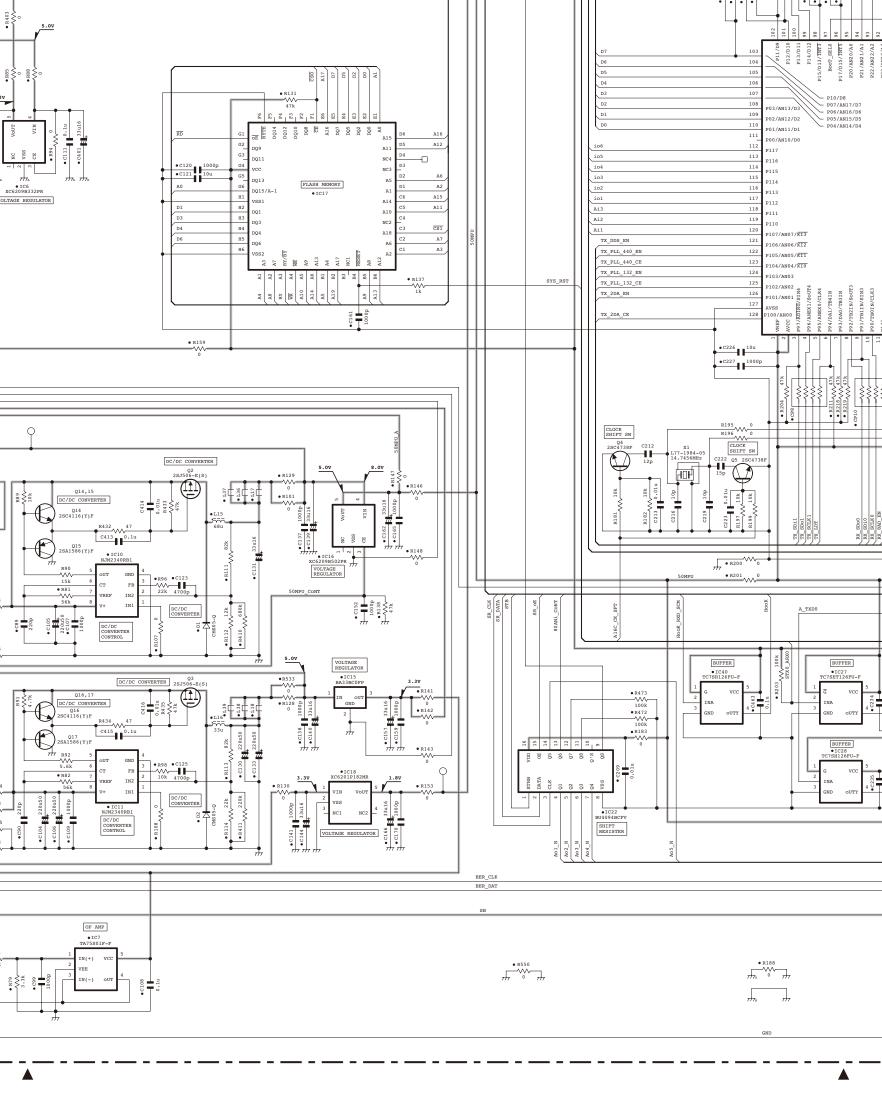


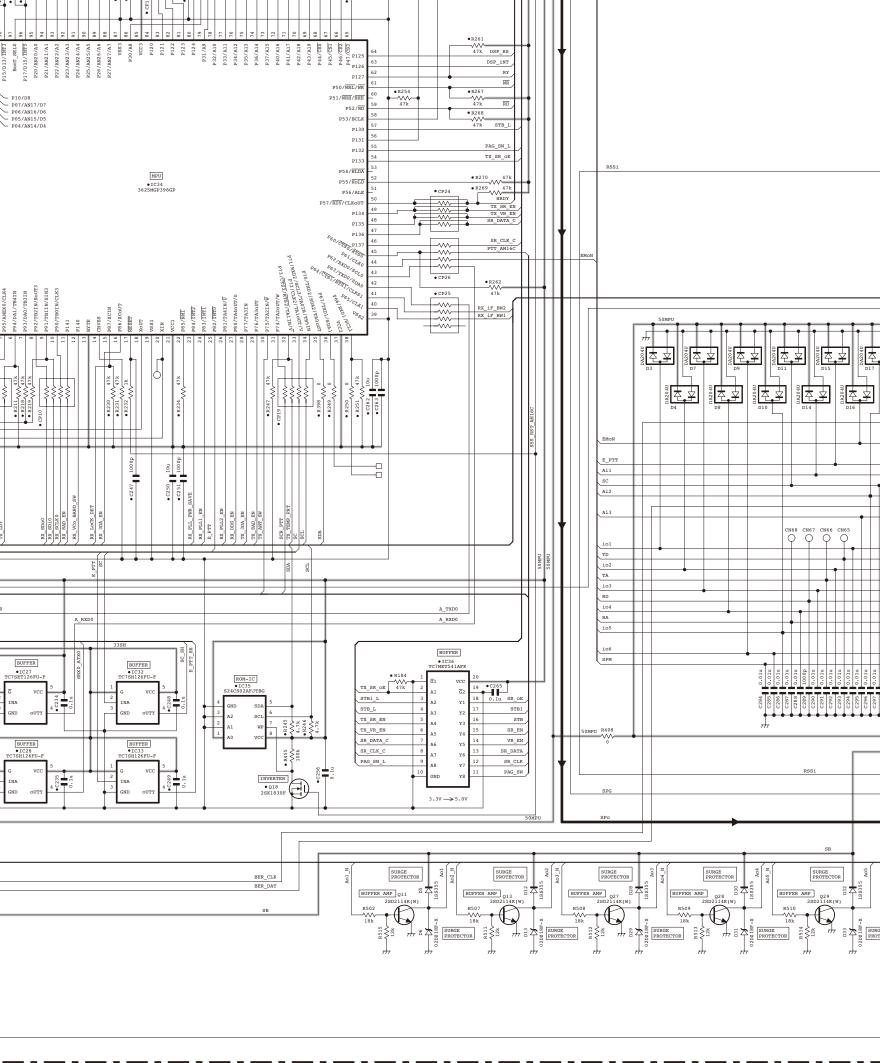


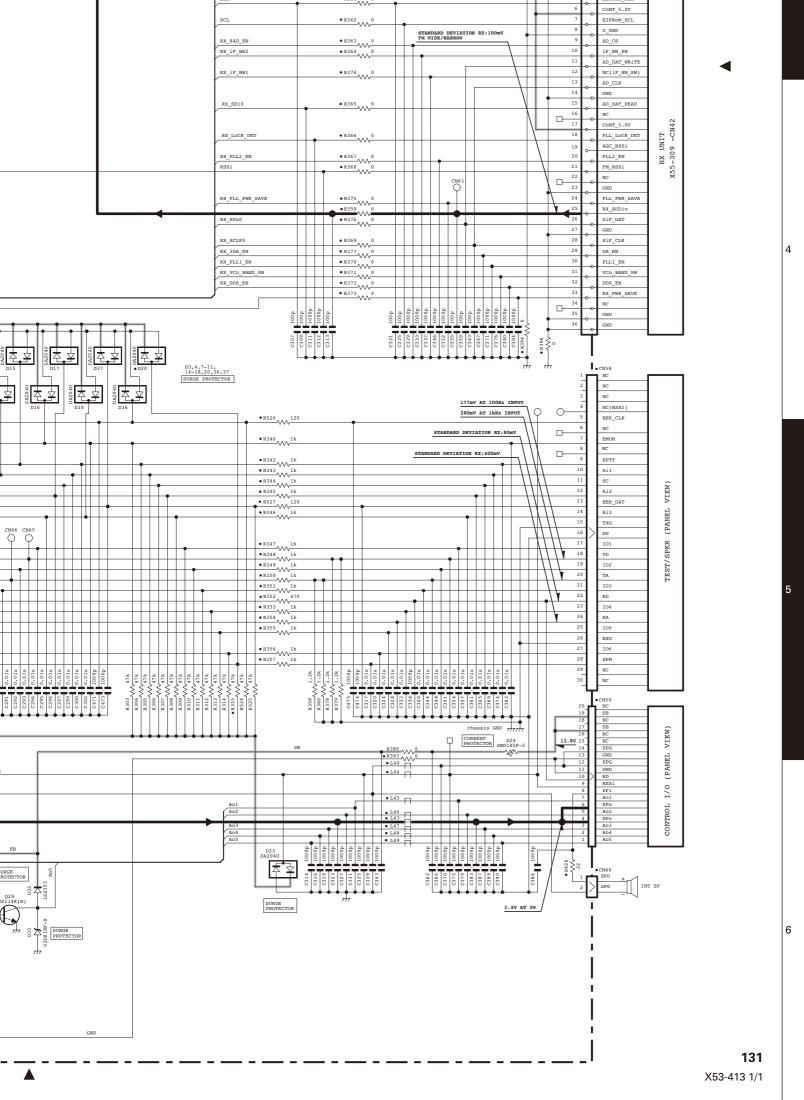


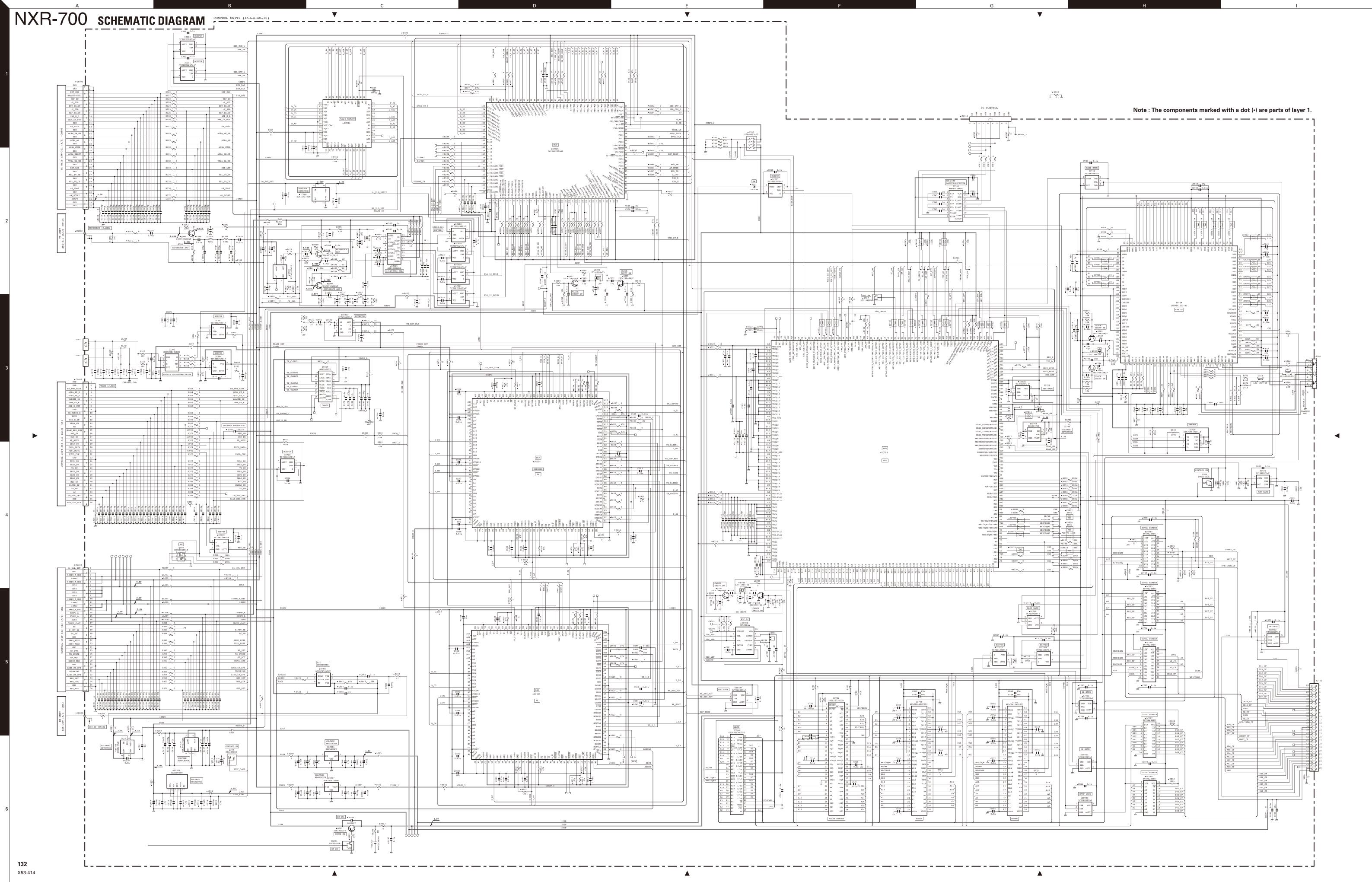


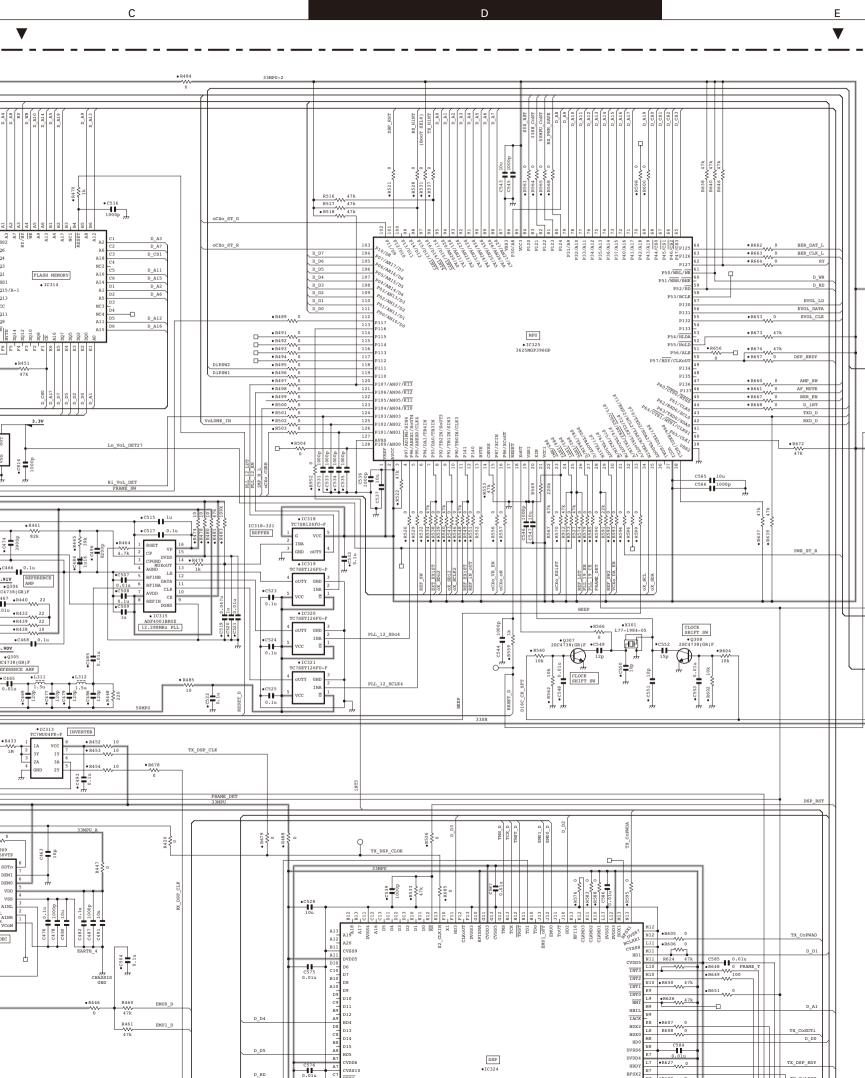


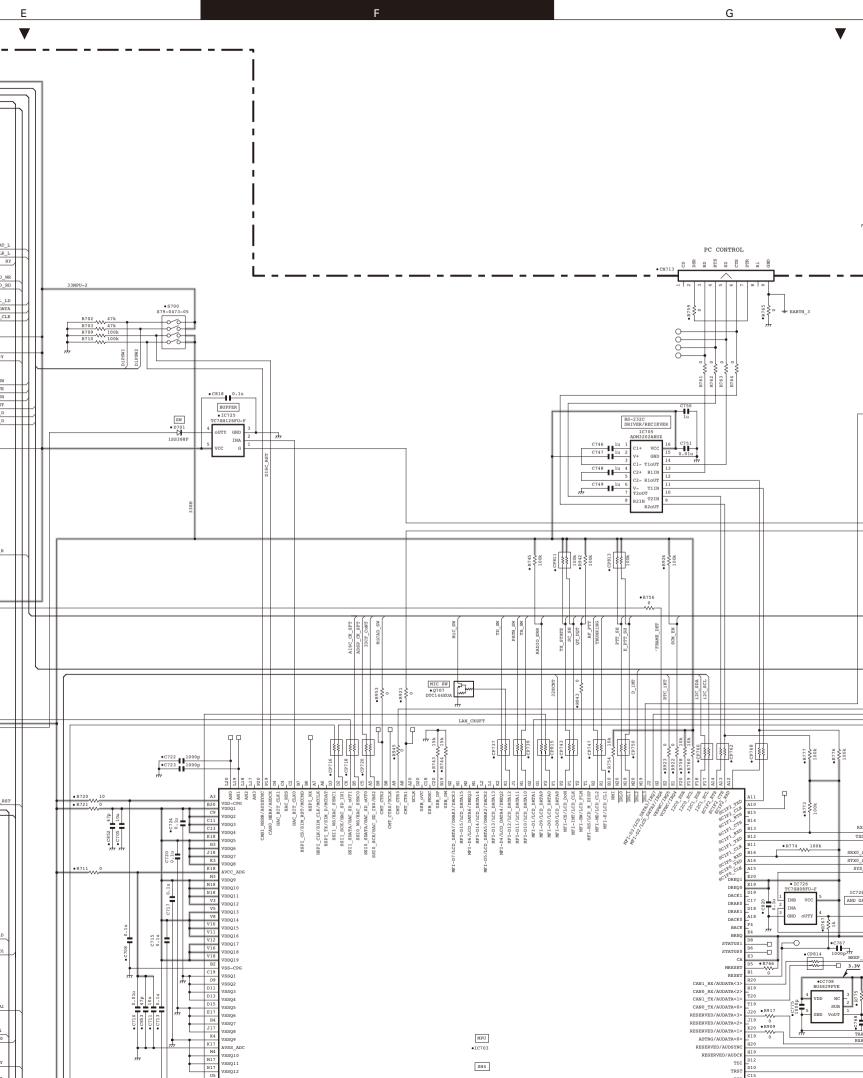






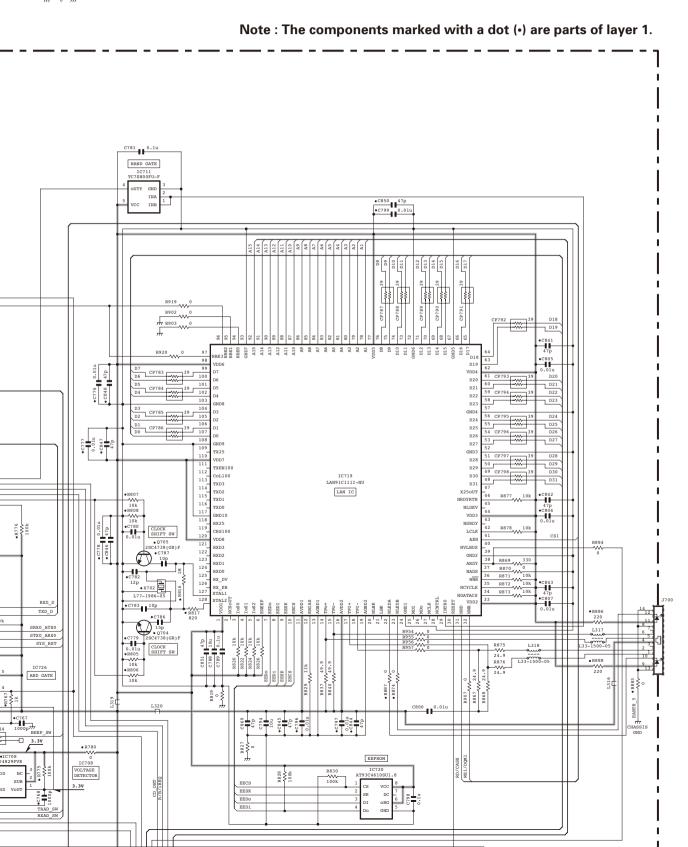


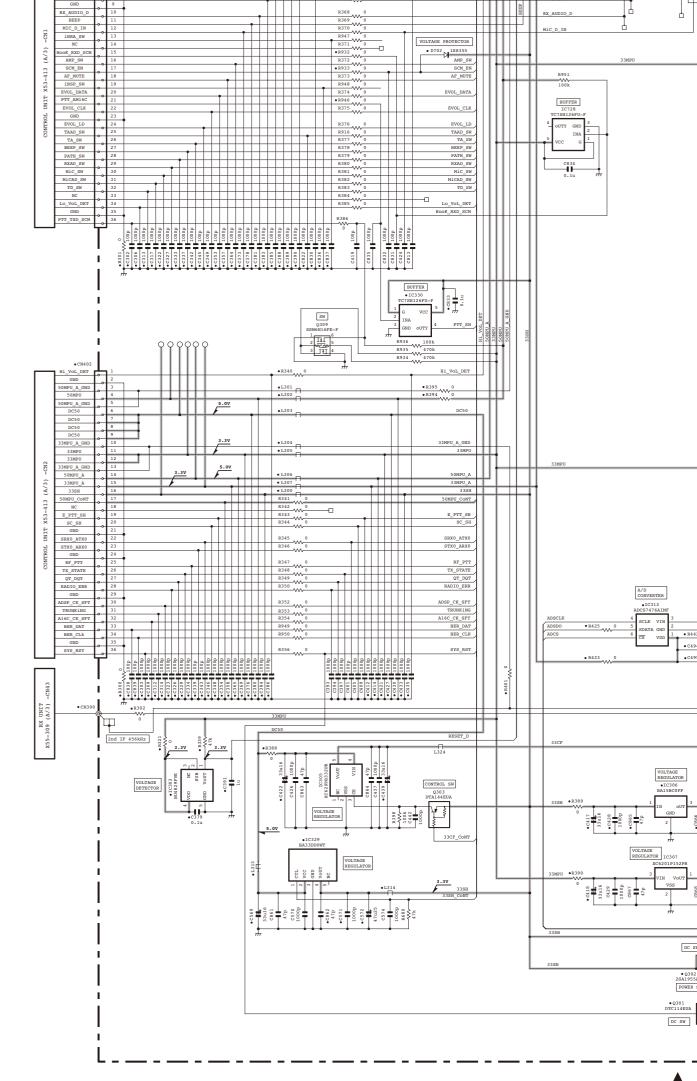




н

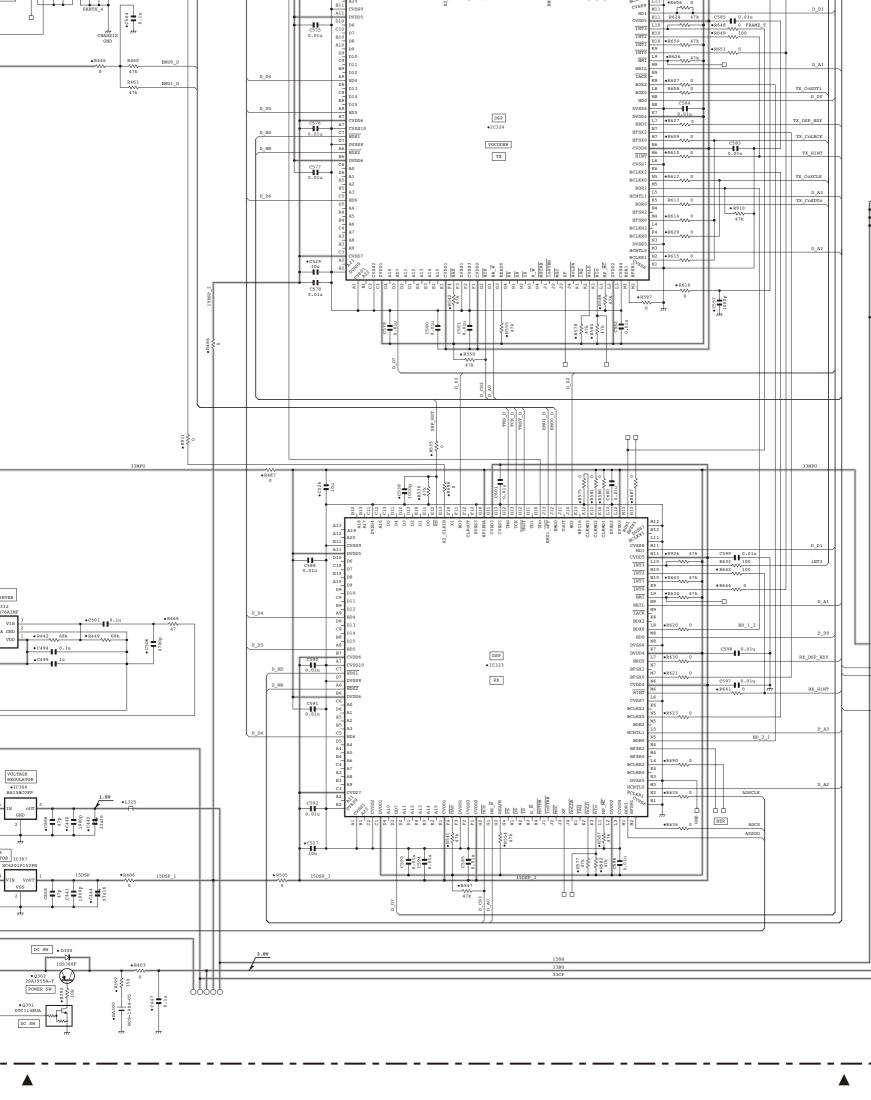
*R960

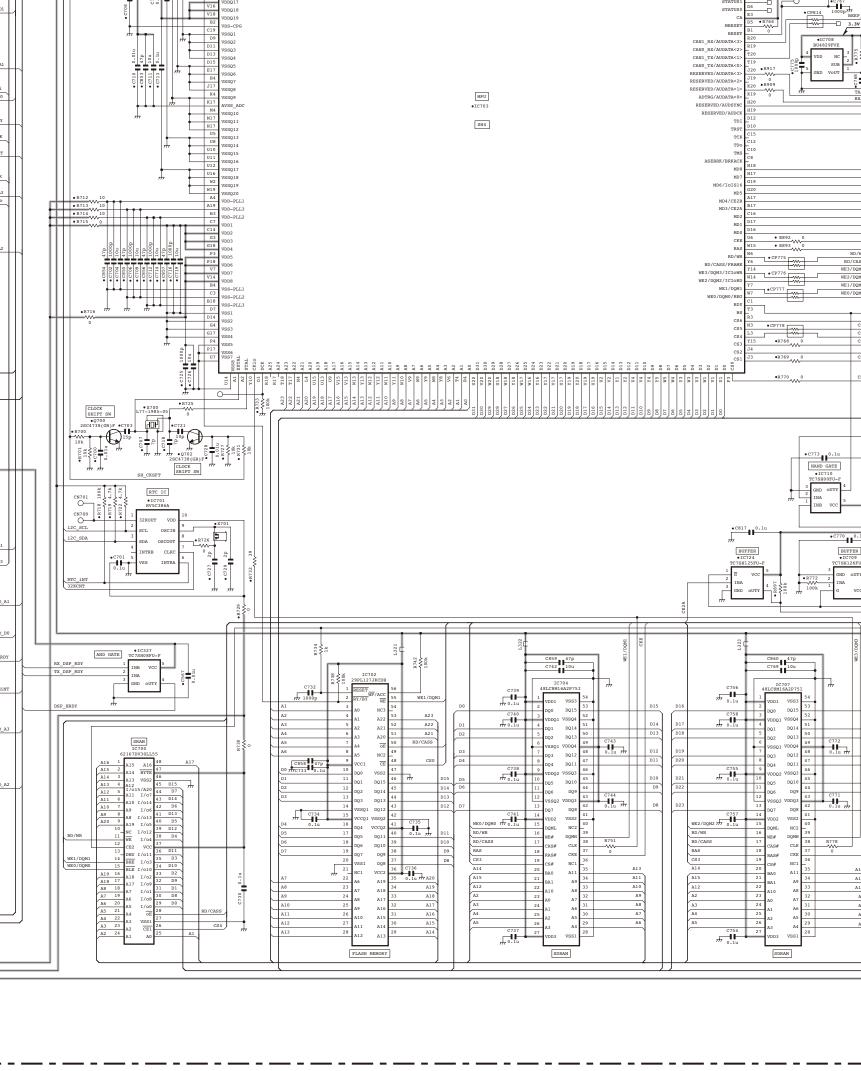


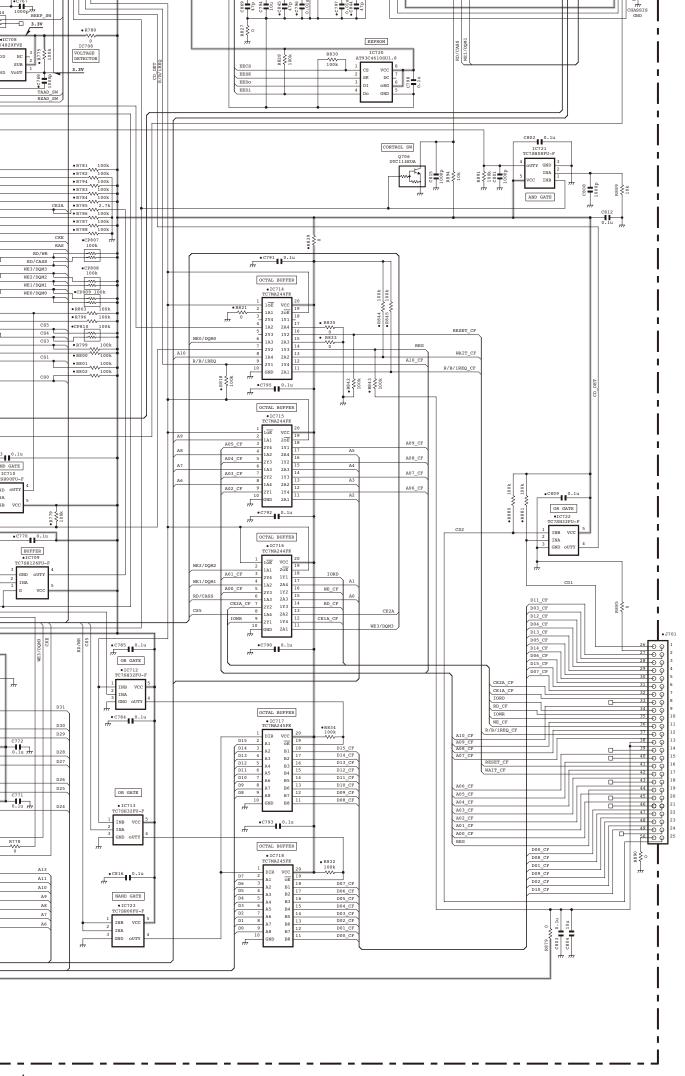


132

X53-414







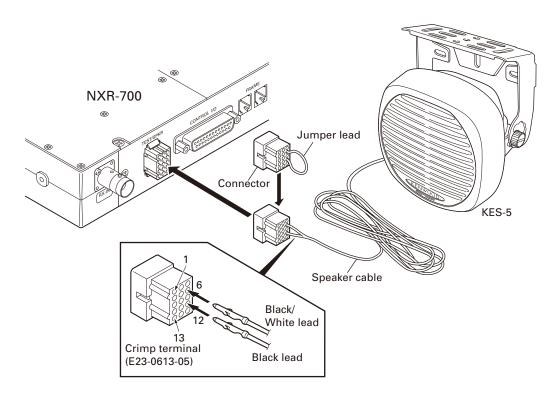
OPTIONAL ACCESSORIES: KES-5 (EXTERNAL SPEAKER)

When Using an External Speaker

- 1. Make sure the unit's power is tuned off.
- 2. When using the external speaker, remove the jumper lead from the connector, and attach the speaker cable.
- 3. When not using the external speaker, replace the jumper lead and insert the connector into the speaker jack (pin9 and 12).

Specifications

Maximum input power	40W
Impedance	4Ω
Dimensions (W x H x D) projection not included	
129 x 129 x 77 mm (51/16 x 5-1/16 x 3 in	ches)
Weight 820g / 1.8	31 lbs



OPTIONAL ACCESSORIES: KXK-3 (OCXO UNIT)

Components Description

■ ACCESSORY UNIT (X42-3280-20)

Ref. No.	Part Name	Description
IC3	MOS-IC	Gigital potentiometer
IC4	Analogue IC	OP AMP
IC6	MOS-IC	OP AMP
IC9	Bi-polar IC	Voltage regulator
IC10	MOS-IC	Inverter
IC11	ROM IC	EEPROM
IC12	Analogue IC	ADC
Q2~4	FET	DC switch
Q5,6	Transistor	RF AMP
Q13~17	FET	DC switch
D5	Diode	DC switch
D8	Diode	Detector

Parts List

* New Parts.

Ref. No.	Address	New parts	Parts No.	Description		
КХК-3						
		*	B62-2022-00	INSTRUCTION	N MANUAL	
			E31-3269-05	LEAD WIRE V	VITH MINIF	IN PLUG
		*	E37-1405-05 E37-1406-05	FLAT CABLE LEAD WIRE V	VITH CONN	ECTOR
			N67-3008-48	PAN HEAD SI	EMS SCREV	V
IC9		*	NJM7805FA-ZB	BI-POLAR IC		
	AC	CES	SSORY UNIT	(X42-32	280-20)
C1-4 C5			CK73GB1H471K CK73GB1H104K	CHIP C	470PF 0.10UF	K K
C6			CK73GB1H104K	CHIP C	470PF	K
C7			CK73GB1H102K	CHIP C	1000PF	K
C8			CK73GB1H471K	CHIP C	470PF	K
C10			CK73GB1H471K	CHIP C	470PF	K
C12			CK73GB1H103K	CHIP C	0.010UF	K
C13			CK73GB1H104K	CHIP C	0.10UF	K B
C14 C16-19			CC73GCH1H090B CK73GB1H104K	CHIP C CHIP C	9.0PF 0.10UF	K
C20			CK73GB1H471K	CHIP C	470PF	K
C21,22			CK73GB1H104K	CHIP C	0.10UF	K
C24			CC73GCH1H030B	CHIP C	3.0PF	В
C26			CK73GB1H471K	CHIP C	470PF	K
C27			CK73GB1H103K	CHIP C	0.010UF	K
C28			CK73GB1H104K	CHIP C	0.10UF	K
C29			CC73GCH1H060B	CHIP C	6.0PF	В
C30		*	CE32AU1C330M	CHIP EL	33UF	16WV
C31			CK73GB1H104K	CHIP C	0.10UF	K
C33			CK73GB1H104K	CHIP C	0.10UF	K

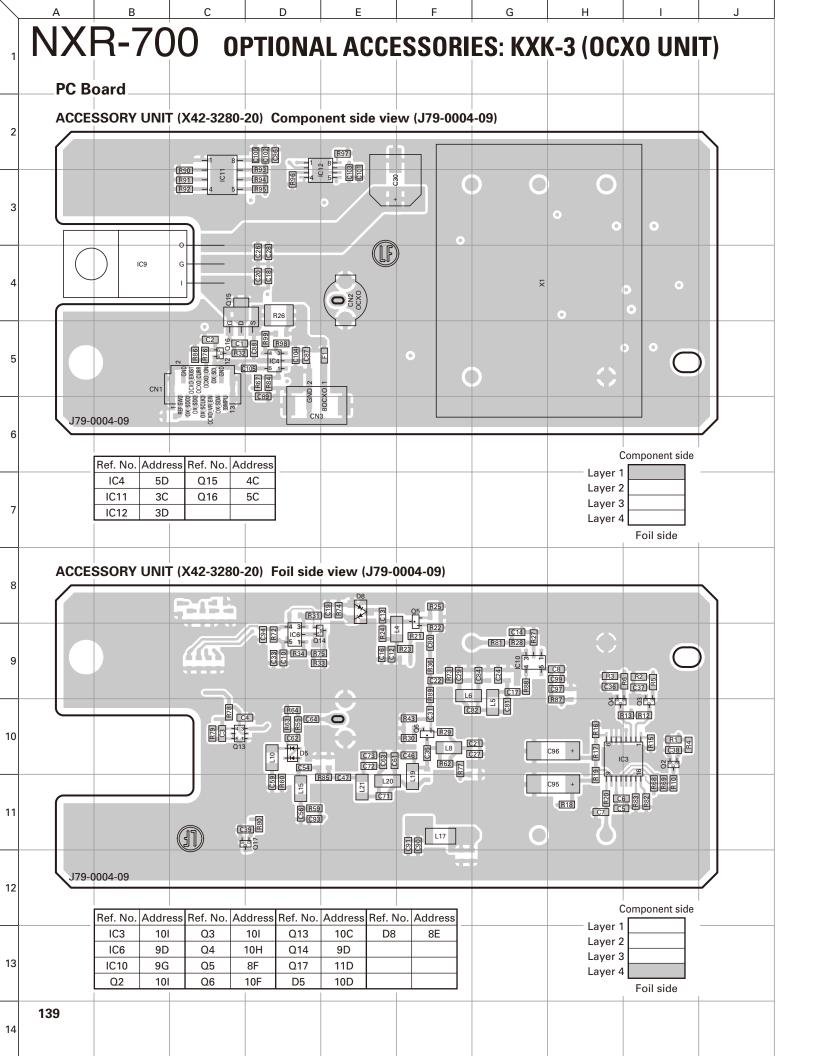
Ref. No.	Address	New parts	Parts No.		Descripti	on
COE		hairs	CV70CD1U104V	CHIP C	0.10115	V
C35			CK73GB1H104K	CHIP C	0.10UF 470PF	K K
C36-39			CK73GB1H471K	-		
C46			CC73GCH1H820J	CHIP C	82PF	J
C47			CK73GB1H104K	CHIP C	0.10UF	K
C54			CK73GB1H104K	CHIP C	0.10UF	K
C56			CK73GB1H104K	CHIP C	0.10UF	K
C59			CK73GB1H104K	CHIP C	0.10UF	K
C61			CC73GCH1H560J	CHIP C	56PF	J
C62			CK73GB1H104K	CHIP C	0.10UF	K
C63			CC73GCH1H391J	CHIP C	390PF	J
C64			CK73GB1H104K	CHIP C	0.10UF	K
C71			CC73GCH1H101J	CHIP C	100PF	J
C72			CC73GCH1H270J	CHIP C	27PF	J
C73			CC73GCH1H101J	CHIP C	100PF	J
C80			CK73GB1H104K	CHIP C	0.10UF	K
C81			CC73GCH1H050B	CHIP C	5.0PF	В
C82			CC73GCH1H1R5B	CHIP C	1.5PF	В
C84			CC73GCH1H220J	CHIP C	22PF	J
C86			CK73GB1E105K	CHIP C	1.0UF	K
C87,88			CK73GB1H471K	CHIP C	470PF	K
C89			CC73GCH1H101J	CHIP C	100PF	J
C90			CK73GB1H104K	CHIP C	0.10UF	K
C91			CK73GB1H103K	CHIP C	0.010UF	K
C93			CK73GB1H104K	CHIP C	0.10UF	K
C94			CK73GB1H103K	CHIP C	0.010UF	K
C95,96		*	CS77CC1C100M	CHIP TNTL	10UF	16WV
C97			CK73GB1H104K	CHIP C	0.10UF	K
C99			CK73GB1H103K	CHIP C	0.010UF	K
C100,101			CK73GB1H104K	CHIP C	0.10UF	K
C102,103			CK73GB1H471K	CHIP C	470PF	K
C104			CK73GB1H103K	CHIP C	0.010UF	K
C105			CK73GB1H104K	CHIP C	0.10UF	K
CN1		*	E40-6822-05	FLAT CABLE (CONNECTO	R
CN2		•	E04-0154-05	PIN SOCKET	30111120101	
CN3			E41-2671-05	PIN ASSY		
F1			F53-0324-05	FUSE (2.5A)		
L4			L41-2205-33	SMALL FIXED	INDUCTOR	R (22UH)
L5		*	L41-1205-33	SMALL FIXED	INDUCTOR	R (12UH)
L6			L41-1505-33	SMALL FIXED	INDUCTOR	R (15UH)
L8			L41-2205-33	SMALL FIXED	INDUCTOR	R (22UH)
L10			L41-3305-33	SMALL FIXED		
L15			L41-3305-33	SMALL FIXED	INDUCTOR	R (33UH)
L17		*	L41-2292-28	SMALL FIXED		
L19			L41-2295-33	SMALL FIXED		
L20			L41-6885-33	SMALL FIXED		
L21			L41-5685-33	SMALL FIXED		
X1		*	L77-1977-05	OCXO (10MH	Z)	
R1-3			RK73GB2A474J	CHIP R 4	170K J	1/10W
R4-6			RK73GB2A474J		170K J 170 J	1/10VV 1/10W
R10			RK73GB2A102J		.0K J	1/10W
R12,13			RK73GB2A102J		.0K J	1/10W
R15			RK73GB2A104J	CHIP R 1	00K J	1/10W
R16			RK73GB2A000J	CHIP R C).0 J	1/10W
R17			RK73GB2A474J		170K J	1/10W
R18,19			RK73GB2A221J		220 J	1/10W
R20			RK73GB2A101J		00 J	1/10W
R21			RK73GB2A103J		0K J	1/10W
	1					

OPTIONAL ACCESSORIES: KXK-3 (OCXO UNIT)

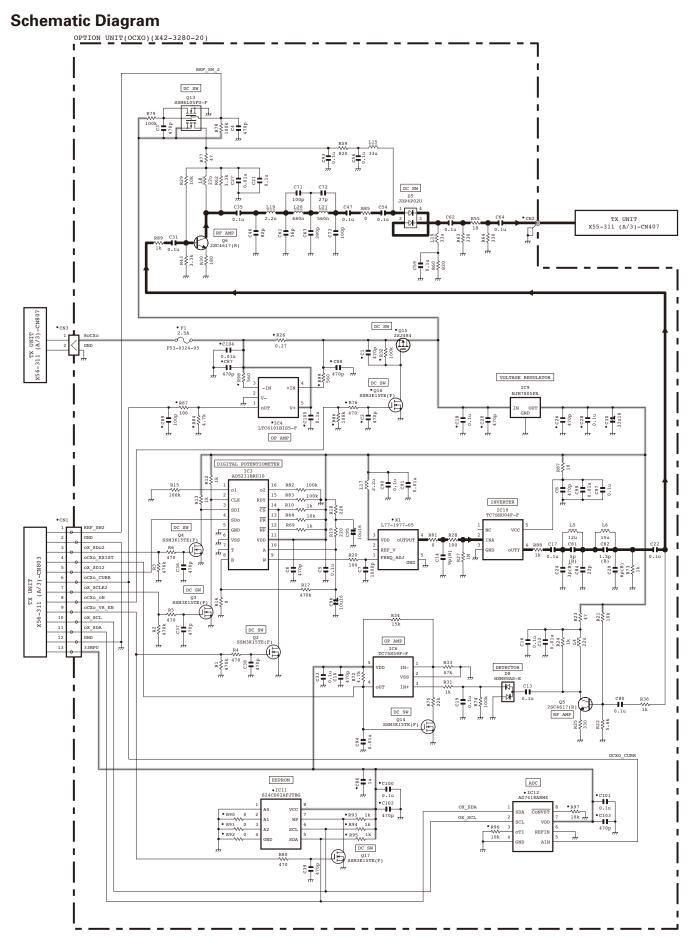
ACCESSORY UNIT (X42-3280-20	
	۱۱

Ref. No.	Address	New parts	Parts No.		Desc	cripti	on	
R22			RK73GB2A562J	CHIP R	5.6K	J	1/10W	
R23			RK73GB2A470J	CHIP R	47	J	1/10W	
R24			RK73GB2A102J	CHIP R	1.0K	J	1/10W	
R25			RK73GB2A331J	CHIP R	330	J	1/10W	
R26			R92-3475-05	CHIP R	0.27	F	1/2W	
R27			RK73GB2A105J	CHIP R	1.0M	J	1/10W	
R28			RK73GB2A101J	CHIP R	100	J	1/10W	
R29			RK73GB2A103J	CHIP R	10K	J	1/10W	
R30			RK73GB2A181J	CHIP R	180	J	1/10W	
R31			RK73GB2A102J	CHIP R	1.0K	J	1/10W	
R32			RK73GB2A104J	CHIP R	100K	J	1/10W	
R33			RK73GB2A473J	CHIP R	47K	J	1/10W	
R34			RK73GB2A153J	CHIP R	15K	J	1/10W	
R36			RK73GB2A102J	CHIP R	1.0K	J	1/10W	
R43			RK73GB2A332J	CHIP R	3.3K	J	1/10W	
R55			RK73GB2A180J	CHIP R	18	J	1/10W	
R59,60			RK73GB2A821J	CHIP R	820	J	1/10W	
R62			RK73GB2A332J	CHIP R	3.3K	J	1/10W	
R63,64			RK73GB2A331J	CHIP R	330	J	1/10W	
R67			RK73GB2A101J	CHIP R	100	J	1/10W	
R68			RK73GB2A103J	CHIP R	10K	J	1/10W	
R69			RK73GB2A102J	CHIP R	1.0K	J	1/10W	
R72			RK73GB2A472J	CHIP R	4.7K	J	1/10W	
R73			RK73GB2A102J	CHIP R	1.0K	J	1/10W	
R74			RK73GB2A104J	CHIP R	100K	J	1/10W	
R75			RK73GB2A223J	CHIP R	22K	J	1/10W	
R76			RK73GB2A471J	CHIP R	470	J	1/10W	
R77			RK73GB2A470J	CHIP R	47	J	1/10W	
R78,79			RK73GB2A104J	CHIP R	100K	J	1/10W	
R80			RK73GB2A471J	CHIP R	470	J	1/10W	

			1	AUGEOC	, OIII 0		(X4Z-3Z8U-ZU)
Ref. No.	Address	New parts	Parts No.		Des	cripti	on
R81			RK73GB2A000J	CHIP R	0.0	J	1/10W
R82,83			RK73GB2A104J	CHIP R	100K	J	1/10W
R84			RK73GB2A472J	CHIP R	4.7K	J	1/10W
R85			RK73GB2A000J	CHIP R	0.0	J	1/10W
R86			RK73GB2A104J	CHIP R	100K	J	1/10W
R87			RK73GB2A100J	CHIP R	10	J	1/10W
R88,89			RK73GB2A102J	CHIP R	1.0K	J	1/10W
R90-92			RK73GB2A000J	CHIP R	0.0	J	1/10W
R93-95			RK73GB2A102J	CHIP R	1.0K	J	1/10W
R96,97			RK73GB2A103J	CHIP R	10K	J	1/10W
R98,99			RK73GB2A561J	CHIP R	560	J	1/10W
D5		*	JDP4P02U	DIODE			
D8			HSM88AS-E	DIODE			
IC3		*	AD5231BRU10	MOS-IC			
IC4		*	LTC6101BIS5-F	ANALOGU	JE IC		
IC6		*	TC75S59F-F	MOS-IC			
IC10			TC7SHU04F-F	MOS-IC			
IC11			S24CS02AFJTBG	ROM IC			
IC12		*	AD7418ARMZ	ANALOGU	JE IC		
Q2-4			SSM3K15TE(F)	FET			
Ω5,6			2SC4617(R)	TRANSIST	TOR		
Q13			SSM6L05FU-F	FET			
Q14			SSM3K15TE(F)	FET			
Q15			2SJ484	FET			
Q16,17			SSM3K15TE(F)	FET			



OPTIONAL ACCESSORIES: KXK-3 (OCXO UNIT) NXR-700



Note: The components marked with a dot (•) are parts of layer 1.

6

2

NXR-700

SPECIFICATIONS

General	
Frequency Range146~174MH	Z
Channel Spacing	
Wide30kH	Z
Narrow15/ 12.5kH	Z
VN7.5/ 6.25kH	Z
PLL Channel Step	Z
Frequency Staability±1.5ppn	n
with OCXO unit ±0.5ppn	ก
Operating Voltage	\mathcal{I}
Operating Temperature Range	
22°F~+140°F (-30°C~+60°C	;)
Antenna Impedance509	2
Dimensions (W x H x D) (Projections not included)	
19.02" x 1.73" x 13.03" (483 x 44 x 331 mm	1)
Weight	J)
Transmitter	
RF Power Output5~0.5W	V
Spurious & Harmonics	3
FM Hum & Noise	
Wide55dE	3
Narrow 50dE	3
Modulation	
Wide	Ξ
Narrow	V

Receiver

Sensitivity	
Digital@6.25kHz (3% BER)	0.33µV
Digital@12.5kHz (3% BER)	
Analog (12dB SINAD)	0.30µV
Selectivity	
Analog Wide *1 (±30kHz)	93dB
Analog Narrow *1 (±12.5kHz)	85dB
Intermodulation Distortion	
Analog Wide (±50kHz/100kHz)	85dB
Analog Narrow (±50kHz/100kHz)	85dB
Spurious & Image	100dB
Audio Distortion (at 0.3W)	Less than 2%
Audio Output (EXT. SP)	3W

*1: Analog measurements made per TIA/EIA 603. Without *1: Analog measurements made per TIA/EIA 603A. KENWOOD reserves the right to change specifications without prior notice or obligation.

Kenwood Corporation

2967-3, Ishikawa-machi, Hachioji-shi, Tokyo, 192-8525 Japan

Kenwood U.S.A. Corporation

P.O. BOX 22745, 2201 East Dominguez Street, Long Beach, CA 90801-5745, U.S.A.

Kenwood Electronics Canada Inc.

6070 Kestrel Road, Mississauga, Ontario, Canada L5T 1S8

Kenwood Electronics Deutschland GmbH

Rembrücker Str. 15, 63150 Heusenstamm, Germany

Kenwood Electronics Belgium N.V.

Leuvensesteenweg 248 J, 1800 Vilvoorde, Belgium

Kenwood Electronics France S.A.

L'Etoile Paris Nord 2, 50 Allée des Impressionnistes, Bp 58416 Villepinte, 95944 Roissy Ch De Gaulle Cedex

Kenwood Electronics UK Limited

KENWOOD House, Dwight Road, Watford, Herts., WD18 9EB United Kingdom

Kenwood Electronics Europe B.V.

Amsterdamseweg 37, 1422 AC Uithoorn, The Netherlands

Kenwood Electronics Italia S.p.A.

Via G. Sirtori, 7/9 20129 Milano, Italy

Kenwood Ibérica, S.A.

Bolivia, 239-08020 Barcelona, Spain

Kenwood Electronics Australia Pty. Ltd.

(A.C.N. 001 499 074)

16 Giffnock Avenue, Centrecourt Estate, North Ryde, N.S.W. 2113 Australia

Kenwood Electronics (Hong Kong) Ltd.

Unit 3712-3724, Level 37, Tower one Metroplaza, 223 Hing Fong Road, Kwai Fong, N.T., Hong Kong

Kenwood Electronics Singapore Pte Ltd

1 Ang Mo Kio Street 63, Singapore 569110

